Spec Sheet

Cisco UCS 5108 Blade Server Chassis, B200 M5/M6 Compute-Only Nodes spec sheet

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OVERVIEW

Cisco UCS 5108 Chassis

The UCS 5108 chassis is a 6RU chassis the that can accommodate up to eight half-width, four full-width or any combination of blade form factors (M1 - M5 generation) that will fit in the available number of blade slots. The chassis has two I/O bays for Fabric Extenders or Fabric Interconnects. refer to the *5108 CHASSIS STANDARD CAPABILITIES and FEATURES on page 12*.

Cisco UCS B200 M5 and M6 Compute-Only (CO) Blade Server

Traditional hyperconverged solutions requires scaling compute and storage together. Modern workloads require modern flexibility. When you need to scale compute capacity without adding storage, Cisco Compute-Only (CO) nodes provide that critical capability-empowering you to design clusters that match your exact requirements

Cisco Compute-Only (CO) nodes serve two purposes: expanding hyperconverged node or connecting to external storage like Everpure Flash Array

A) Expanding Cisco Compute Hyperconverged node cluster with Compute-Only (CO) node:

Cisco's Compute-Only (CO) node solution enables you to expand the compute resources of Cisco Hyperconverged cluster running Nutanix by adding UCS certified servers without additional storage. These storage-less, Cisco certified Compute-Only (CO) servers integrate seamlessly into your existing or new hyperconverged Nutanix cluster, allowing organizations to efficiently support CPU-intensive applications by scaling processing resources independently of storage infrastructure.

Key benefits:

- Cost-effective scaling for compute-heavy workloads
- Flexibility in cluster design

Delivering performance, versatility and density without compromise, the Compute-Only (CO) Node addresses the broadest set of workloads.

B) Cisco Compute-Only (CO) node connected to Everpure Flash Array (Flashstack with Nutanix)

Everpure® FlashArray//X™ and FlashArray//XL™ delivers mission-critical performance with the efficiency and resiliency that’s missing from legacy arrays. FlashArray //X and FlashArray//XL™ packs more IOPS, ultra consistent latency, and greater scale into a smaller footprint. Non-disruptive upgrades, always-on availability, and built-in data protection ensure workloads are always running while cutting risk. FlashArray//XL is designed to provide the highest performance density with a level of operational and management simplicity. FlashArray//C™ delivers a balanced all-flash storage solution optimized for file services and general-purpose workloads. With predictable performance, streamlined operations, and built-in cyber resiliency, it keeps applications consistently secure and positions organizations to outperform capacity-optimized, all-flash, and hybrid storage alternatives.

Nutanix Cloud Platform (NCP) consolidates computing, storage, and networking into a unified pool. It uses AOS for storage, AHV for virtualization, and Prism Central for centralized management across environments.

The Cisco Compute-Only (CO) node with Nutanix Cloud Platform (NCP) and Everpure FlashArray solution delivers a disaggregated infrastructure architecture that enables independent scaling of compute and

storage resources. This solution combines industry-standard Cisco Compute-Only (CO) node servers running Nutanix AHV and AOS connected to external Everpure FlashArray. The FlashStack solution with Nutanix integration provides organizations with the agility to adapt infrastructure resources dynamically while maintaining enterprise-level reliability and performance

The enterprise-class Cisco UCS B200 M6 Compute-Only (CO) Blade Server extends the capabilities of Cisco's Unified Computing System portfolio in a half-width blade form factor. The Cisco UCS B200 M6 harnesses the power of the 3rd Gen Intel® Xeon® Scalable Processors. *B200 M6 SERVER STANDARD CAPABILITIES and FEATURES on page 13*

The enterprise-class Cisco UCS B200 M5 Compute-Only (CO) Blade Server extends the capabilities of Cisco's Unified Computing System portfolio in a half-width blade form factor. The Cisco UCS B200 M5 harnesses the power of the 2nd Gen Intel® Xeon® Scalable Processors. *B200 M5 SERVER STANDARD CAPABILITIES and FEATURES on page 14*

DETAILED VIEWS - The UCS 5108 chassis

Chassis Front Views

Figure 1 is a detailed front view of the Cisco UCS 5108 Blade Server Chassis with eight half-width blade servers installed.

Figure 1 5108 Chassis Front View with Eight Half-Width Blade Servers Installed

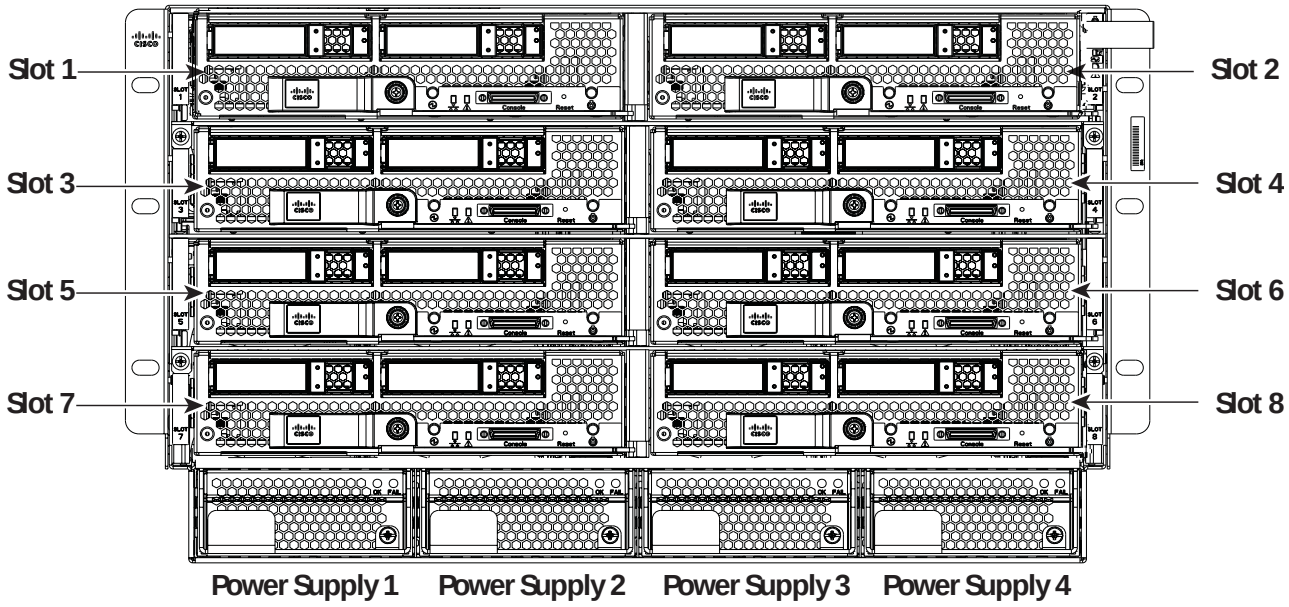


Table 1 Front View Callouts

Callout	Description
Slot 1 - 8	Slot numbering for half-width blade servers
Power Supply 1 - 4	Slot numbering for power supply

Figure 2 is a detailed front view of the Cisco UCS 5108 Blade Server Chassis with four full-width blade servers installed.

Figure 2 5108 Chassis Front View with Four Full-Width Blade Servers Installed

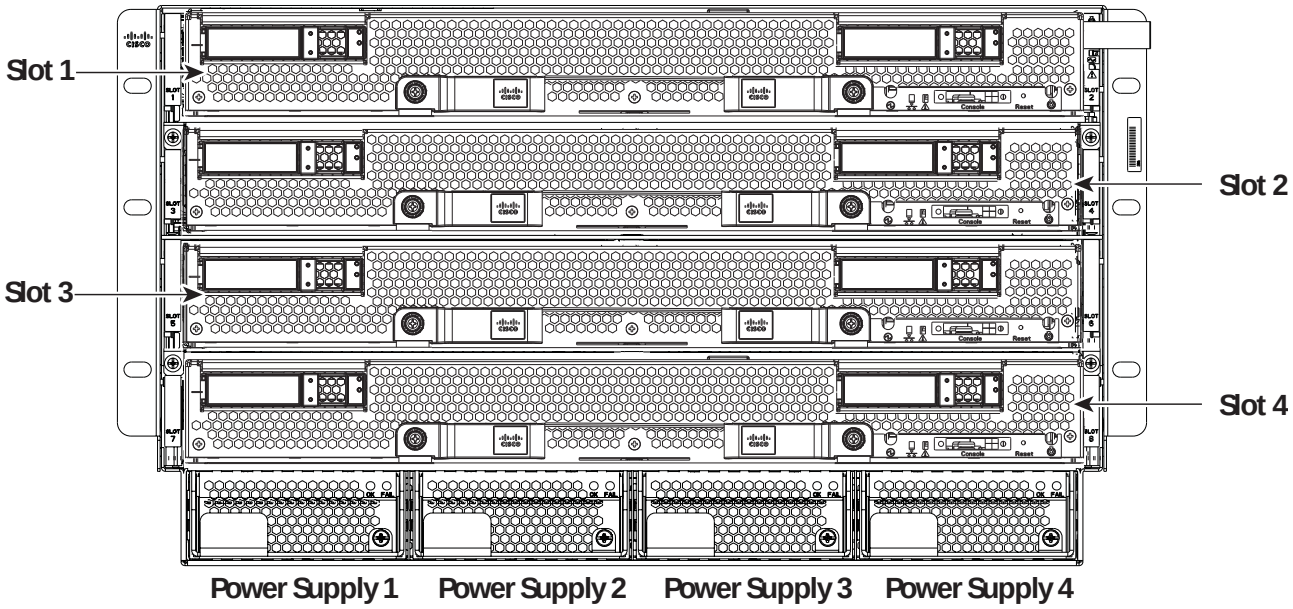


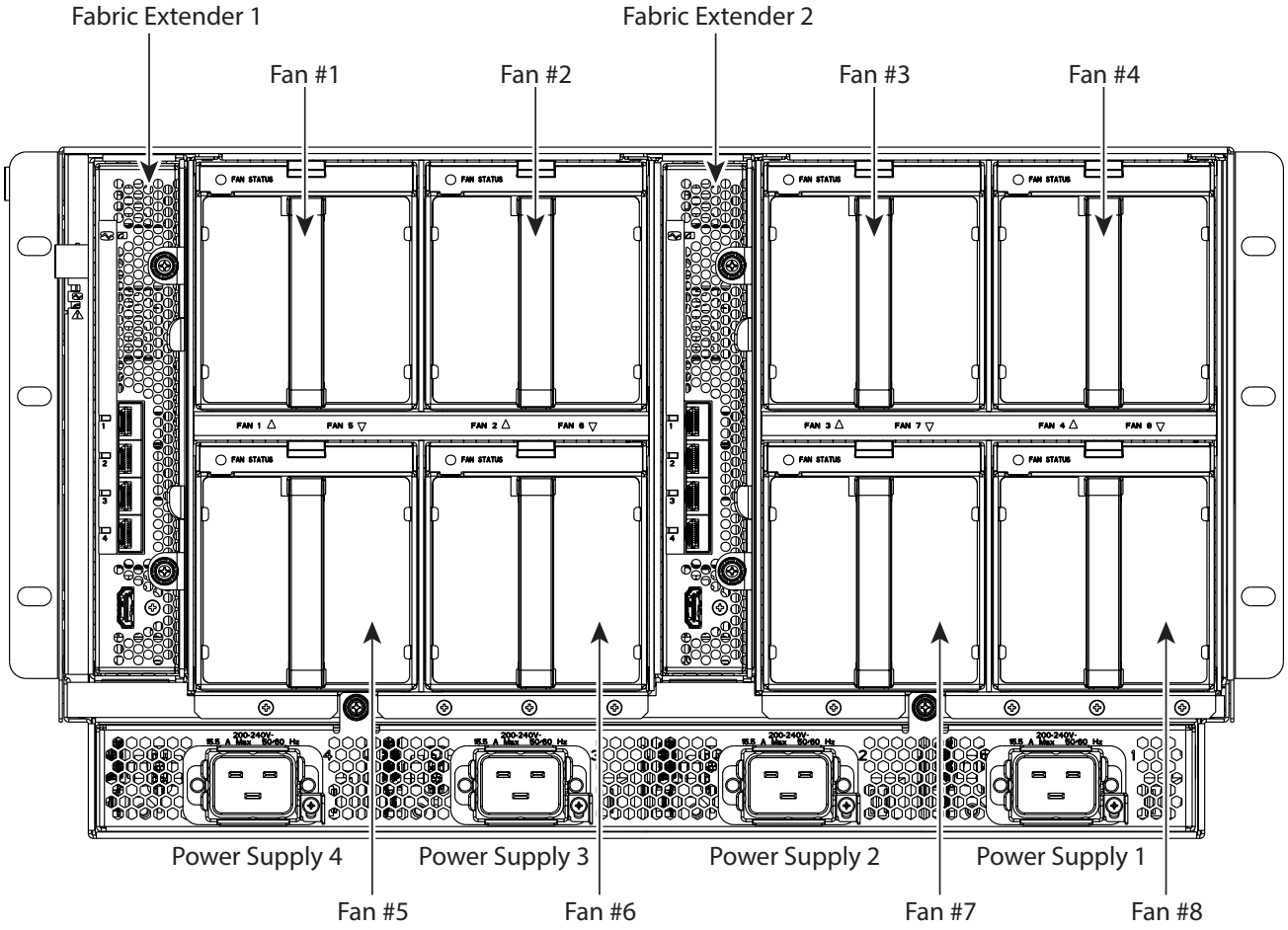
Table 2 Front View Callouts

Callout	Description
Slot 1 - 4	Slot numbering for full-width blade servers
Power Supply 1 - 4	Slot numbering for power supply

Chassis Rear View

Figure 3 shows the rear view of the 5108 chassis (AC power version).

Figure 3 Chassis Rear View (AC power supplies)

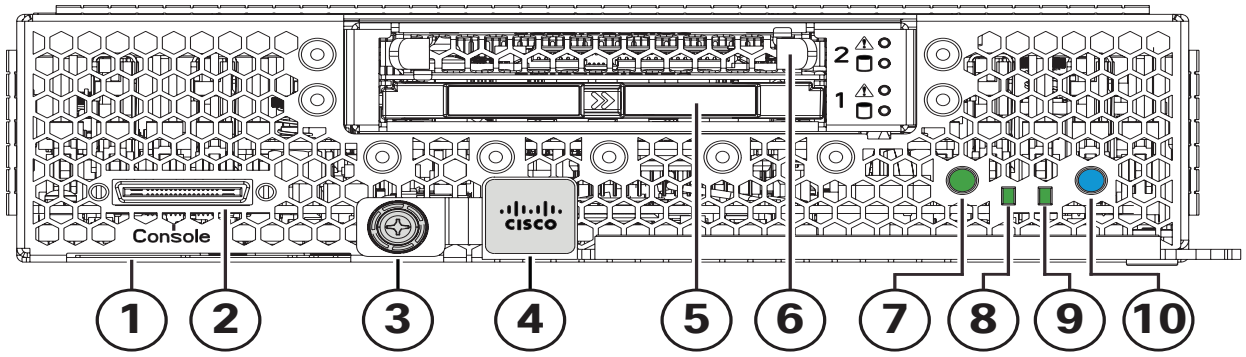


DETAILED VIEWS - Cisco UCS B200 M6 Compute-Only (CO) Blade Server

Blade Server Front View

Figure 4 is a detailed front view of the Cisco UCS B200 M6 Compute-Only (CO) Blade Server.

Figure 4 Blade Server Front View



1	Asset pull tag Each server has a plastic tag that pulls out of the front panel. The tag contains the server serial number as well as the product ID (PID) and version ID (VID). The tag also allows you to add your own asset tracking label without interfering with the intended air flow.	**6**	Drive Bay 2(shown unpopulated)
2	Console connector[1]	**7**	Power button and LED
3	Ejector thumbscrew	**8**	Network link status LED
4	Blade ejector handle	**9**	Blade health LED
5	Drive bay 1 (shown populated)	**10**	Locate button and LED

Notes . . .

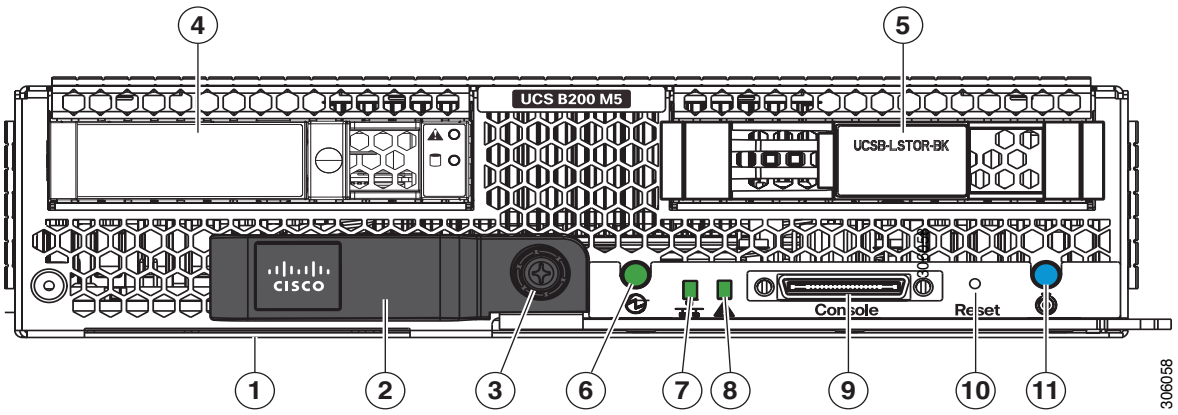
1. A KVM I/O cable plugs into the console connector, and can be ordered as a spare. The KVM I/O cable in included with every Cisco UCS 5100 Series blade server chassis accessory kit.

DETAILED VIEWS - Cisco UCS B200 M5 Compute-Only (CO) Blade Server

Blade Server Front View

Figure 5 is a detailed front view of the Cisco UCS B200 M5 Compute-Only (CO) Blade Server.

Figure 5 Blade Server Front View



1	Asset pull tag Each server has a plastic tag that pulls out of the front panel. The tag contains the server serial number as well as the product ID (PID) and version ID (VID). The tag also allows you to add your own asset tracking label without interfering with the intended air flow.	**7**	Network link status
2	Blade ejector handle	**8**	Blade health LED
3	Ejector captive screw	**9**	Console connector[1]
4	Drive bay 1	**10**	Reset button access
5	Drive bay 2	**11**	Locator button and LED
6	Power button and LED		

Notes . . .

1. A KVM I/O cable plugs into the console connector, and can be ordered as a spare. The KVM I/O cable in included with every Cisco UCS 5100 Series blade server chassis accessory kit.

5108 CHASSIS STANDARD CAPABILITIES and FEATURES

Table 3 Capabilities and Features

Capability/Feature	Description
Unified fabric	Decreases TCO by reducing the number of network interface cards (NICs), host bus adapters (HBAs), switches, and cables needed
Support for up to two Cisco UCS Fabric Extenders	■ Eliminates switches from the chassis along with complex configuration and management of those switches, allowing a system to scale without adding complexity and cost ■ Allows use of two fabric extenders for redundancy or aggregation of bandwidth
Fabric Interconnects	■ Allows use of a pair of Cisco UCS 6400 Series or a pair of Cisco UCS 6500 Series Fabric Interconnect for redundancy or aggregation of bandwidth ■ Support a pair of Cisco UCS 6400 Series or a pair of Cisco UCS 6500 Series Fabric Interconnects that connect directly to an external switch ■ The 6400/6500 Series Fabric Interconnect combines the Fabric Extender and Fabric Interconnect functions into one plug-in module, and allows direct connection to an external switch.
Redundant hot-swappable power supplies and fans	■ Provides high availability in multiple configurations ■ Provides uninterrupted service during maintenance
Hot-swappable blade servers and fabric extenders	Provides uninterrupted service during maintenance and server deployment.
Comprehensive monitoring	■ Provides extensive environmental monitoring on each chassis ■ Allows use of user thresholds to optimize environmental management of the chassis
Thermal efficiencies	The Chassis Management Controller (CMC) monitors all the temperature sensors and regulates fan speeds to maintain the airflow at the minimum needed to cool the system. The open backplane and deep plenum allow air to be directed across the blades to ensure cooling is directed where it is needed most.
Tool-free installation	■ Requires no specialized tools for chassis installation ■ Provides mounting rails for easy installation and servicing
Mixed blade configurations	The UCS 5108 Server Chassis can accommodate a maximum of 8 half-width sever blades.

B200 M6 SERVER STANDARD CAPABILITIES and FEATURES

Table 4 Capabilities and Features

Capability/Feature	Description
Chassis	The UCS B200 M6 Compute-Only (CO) Blade Server mounts in a Cisco UCS 5108 Series blade server chassis or UCS Mini blade server chassis.
CPU	One or two 3rd Gen Intel® Xeon® Scalable Processors.
Chipset	Intel® C621A series chipset (Lewisburg)
Memory	32 total DIMM slots
Modular LOM	One modular LOM (mLOM) connector at the rear of the blade for a Cisco mLOM VIC adapter, which provides Ethernet.
Storage devices	Supports up to two M.2 drives
Mezzanine Adapters (Rear)	Cisco Mezzanine VIC Adapter
Interfaces	One KVM console connector on the front panel
Power subsystem	Integrated in the Cisco UCS 5108 blade server chassis
Fans	Integrated in the Cisco UCS 5108 blade server chassis.
Integrated management processor	The built-in Cisco Integrated Management Controller enables monitoring of server inventory, health, and system event logs
ACPI	Advanced Configuration and Power Interface (ACPI) 6.2 standard Supported.
CIMC	Cisco Integrated Management Controller 4.2(1) or later

B200 M5 SERVER STANDARD CAPABILITIES and FEATURES

Table 5 Capabilities and Features

Capability/Feature	Description
Chassis	The UCS B200 M5 Compute-Only (CO) Blade Server mounts in a Cisco UCS 5108 Series blade server chassis or UCS Mini blade server chassis.
CPU	One or two 2nd Generation Intel® Xeon® scalable family CPUs.
Chipset	Intel® C621 series chipset (Lewisburg)
Memory	24 total DIMM slots
Modular LOM	One modular LOM (mLOM) connector at the rear of the blade for a Cisco mLOM VIC adapter, which provides Ethernet.
Mezzanine Adapters (Rear)	One rear mezzanine connector for various types of Cisco mezzanine adapters ■ Cisco Mezzanine VIC Adapter
Storage devices	Internal mini-storage modules that can accommodate : ■ Up to two M.2 SATA drives
Interfaces	One KVM console connector on the front panel
Power subsystem	Integrated in the Cisco UCS 5108 blade server chassis
Fans	Integrated in the Cisco UCS 5108 blade server chassis.
Integrated management processor	The built-in Cisco Integrated Management Controller (CIMC) GUI or CLI interface enables monitoring of server inventory, health, and system event logs
ACPI	Advanced Configuration and Power Interface (ACPI) 4.0 Standard Supported.

CISCO UCS 5108 CHASSIS SUPPORTED COMPONENTS

BASE CHASSIS SKU

Table 6 PID of the Base UCS Mini Chassis

Product ID (PID)	Description
UCSB-5108-AC2	UCS 5108 Blade Server AC2 Chassis, 0 PSU/8 fans/0 FEX
UCSB-5108-AC2-UPG	UCS 5108 Blade Server AC2 Chassis, 0 PSU/8 fans/0 FEX
UCSB-5108-AC2=	UCS 5108 Blade Server AC2 Chassis, 0 PSU/8 fans/0 FEX
UCSB-5108-DC2	UCS 5108 Blade Server DC2 Chassis/0 PSU/8 fans/0 FEX
UCSB-5108-DC2-UPG	UCS 5108 Blade Server DC2 Chassis/0 PSU/8 fans/0 FEX
UCSB-5108-DC2=	UCS 5108 Blade Server DC2 Chassis/0 PSU/8 fans/0 FEX
UCSB-5108-HVDC	UCS 5108 Blade Chassis 200V-380V HVDC 0 PSU/8 fans/0 FEX
UCSB-5108-HVDC-UPG	UCS 5108 Blade Chassis 200V-380V HVDC 0 PSU/8 fans/0 FEX
UCSB-5108-HVDC=	UCS 5108 Blade Chassis 200V-380V HVDC 0 PSU/8 fans/0 FEX

Items included with the chassis:

- N01-UAC1: AC power input module (AC blade chassis only)
- UCSB-PWRM-DC48: DC power input module (DC blade chassis only)
- UCSB-PWRM-HVDC: HVDC power input module (HVDC blade chassis only)
- N20-CDIVH: Horizontal divider, where quantity is based on number and type of blade(s) selected.
- N20-CDIVV: Vertical divider, where quantity is based on number and type of blade(s) selected.
- N20-CBLKI: FEX blanking panel, where quantity is based on unpopulated slots.
- N20-CBLKB1: Blade blanking panel, where quantity is based on unpopulated slots.
- N20-CBLKP: PSU blanking panel, where quantity is based on unpopulated slots.
- N20-FAN5: Fan modules.
- N20-CAK: Chassis accessory kit, consisting of:
  - N20-CRMK2: Tool-less rail kit designed for racks with square mounting.
  - N20-BKVM=: KVM local console connector cable that connects to the front of any UCS blade server, and documentation.

Items not included with the chassis (but may be ordered separately):

- N20-CRMK2-RHA=: Round hole adapter kit used to install tool-less rail kit in racks that have round mounting holes (supports threaded and non-threaded holes).
- All items listed above can be ordered separately as spares, with the exception of the power

input modules.



NOTE: The adapter kit only works with the N20-CRMK2 rail kit

Caveats

- You must select either an AC, DC, or HVDC version of the 5108 blade chassis, which is configured with the appropriate input power module (AC, DC or HVDC).
- Mixing of AC, DC, and HVDC PSUs within the same 5108 blade chassis is not supported.
- The blade chassis input power module cannot be replaced in the field to convert the input power type, e.g. converting a DC input to an AC input blade chassis.

FABRIC I/O EXTENDERS

The following Fabric I/O Extender options are supported for Compute-Only node configuration:

- Cisco UCS 2408
- Cisco UCS 2304V2

Fabric I/O Extenders

The Fabric I/O Extenders are listed in *Table 7*. Each Fabric I/O Extender connects to the Fabric Interconnect series 10GbE or 40GbE capable ports.

Table 7 Fabric I/O Extenders

Product ID (PID)	Fabric I/O Extender	Number of GbE	Number of Internal GbE	Total Chassis I/O per Fabric Extender
UCS-IOM-2408	Cisco UCS 2408 I/O Module (8 external 25G ports, 32 internal 10G ports)	8x25G	32x10G	200 Gbps
UCS-IOM-2304V2	UCS 2304V2 I/O Module (4 External, 8 Internal 40Gb Ports)	4x40G	32x10G or 8x40G	160 Gbps

Approved Configurations

(1) One or two identical Fabric I/O Extenders

FABRIC INTERCONNECTS

Fabric Interconnects

The Fabric Interconnects are listed in *Table 8*. Each Fabric Interconnect integrates the functions of a Fabric I/O Extender and Fabric Interconnect and connects directly to external Nexus switches by means of several ports of 10GbE.

Table 8 Fabric Interconnects

Product ID (PID)	Fabric Interconnect
UCS-FI-6454-U	1RU FI, with no PSU, with 54 ports and includes 18x10/25-Gbps and 2x40/100-Gbps port licenses
UCS-FI-64108-U	UCS 64108 2RU FI, with no PSU, with 108 ports and includes 36x10/25-Gbps and 4x40/100-Gbps port licenses
UCSX-FI-6536-U	Fabric Interconnect 6536 for IMM



WARNING: Cisco 6600 series Fabric Interconnect does not currently support B200 M5 and M6 Compute-Only (CO) nodes



WARNING: The servers can be interconnected and managed in Intersight Managed mode only.

- The nodes are connected to a pair of Cisco UCS 6400 Series or a pair of Cisco UCS 6500 Series interconnects that are entirely managed from Intersight (SaaS, PVA or CVA).
- All Servers are connected to the same pair of fabric interconnect.

Approved Configurations

(1) One or two identical Fabric Interconnects

POWER SUPPLIES

The 5108 blade chassis accommodates up to four power supplies.

Power Supplies

The power supplies are listed in *Table 9*.

Table 9 Power Supplies

Product ID (PID)	PID Description
UCSB-PSU-2500ACDV	2500 W Platinum AC Hot Plug Power Supply - DV
UCSB-PSU-2500DC48	2500 W DC -48 V power supply
UCSB-PSU-2500HVDC	2500 W DC high voltage (200 to 380 VDC) DC power supply

Approved Configurations

(1) 2 to 4 power supplies

Caveats

- You must have either an AC, DC, or HVDC version of the 5108 blade chassis, which is configured with the appropriate input power module (AC, DC or HVDC).
- Mixing AC, DC or HVDC PSUs within the same 5108 blade chassis is not supported.
- The blade chassis input power module cannot be replaced in the field to convert the input type e.g. converting a DC input to an AC input blade chassis.

INPUT POWER CORD(s)

AC power cords are listed in *Table 10*.

Table 10 Power Cords

Product ID (PID)	PID Description	Comment
CAB-AC-16A-AUS	16A, 250 VAC	Australia
CAB-9K16A-BRZ	16A, 250 VAC	Brazil
CAB-AC16A-CH	16A, 250 VAC	China
CAB-AC-2500W-EU	16A, 250 VAC	Europe
CAB-AC-2500W-INT	16A, 250 VAC	International
CAB-AC-2500W-ISRL	16A, 250 VAC	Israel
CAB-US620P-C19-US	16A, 250VAC NEMA L6-20P to IEC C19	USA
CAB-AC-C6K-TWLK	20A, 250VAC NEMA L6-20 (Twist Lock) to IEC C19	USA
CAB-ACS-16	16A, 250 VAC	Switzerland
CAB-C19-CBN	16A, 250 VAC	Jumper cord C19/C20
CAB-US515P-C19-US	15A, 125 VAC NEMA 5-15 to IEC-C19	USA
CAB-US520-C19-US	20A, 125 VAC NEMA 5-20 to IEC-C19	USA
CAB-BS1363-C19-UK	13A, 250 VAC BS1363 to IEC C19	UK
CAB-9K16A-KOR	16A, 250 VAC CEE 7/7 to IEC C19	South Korea
CAB-C19-C20-3M-JP	16A, 250 VAC	Japan
CAB-IR2073-C19-AR	20A, 250 VAC IRSM 2073 to IEC C19	Argentina
CAB-SABS-C19-IND	16A, 250 VAC SABS 164-1 to IEC C19	India
CAB-S132-C19-ISRL	16A, 250 VAC S132 to IEC C19	Isreal
CAB-C2316-C19-IT	16A, 250 VAC CEI 23-16 to IEC C19	Italy

TECHNICAL SPECIFICATIONS

Physical Dimensions and Specifications

Table 11 Cisco UCS 5108 Chassis Specifications

Parameter	Value
Height	10.5 in. (26.7 cm); 6 rack unit (6RU)
Width	17.5 in. (44.5 cm); fits standard 19-inch square-hole rack (or round hole threaded or non-threaded, with optional adapter kit)
Depth	32 in. (81.2 cm)
Weight	90 lbs (40.83 kg) empty, 255 lbs (115.66 kg) fully configured
Blade server slots	8 half-width slots, 4 full-width slots, or combination of half- and full-width slots.
IO slots (for FIs or FEXs)	2
Power	Four PSUs supporting N, N+1 and N+N redundancy.
Fans	8 hot-swappable fan modules supporting N+1 redundancy
Backplane	1.2 TB of aggregate throughput; supports 10G-KR or 40G-KR connections for 8 half-width blades.
Regulatory compliance	Products comply with CE Markings per directives 2004/108/EC and 2006/108/EC1
Safety	■ UCANL 60950-1 ■ CAN/CSA-C22.2 No. 60950-1
EMC: Emissions	■ 47CFR Part 15 (CFR 47) Class A ■ AS/NZS CISPR22 Class A ■ CISPR2 2 Class A ■ EN55022 Class A ■ ICES003 Class A ■ VCCI Class A ■ EN61000-3-2 ■ EN61000-3-3 ■ KN22 Class A
EMC: Immunity	■ EN50082-1 ■ EN61000-6-1 ■ EN55024 ■ CISPR24 ■ EN300386 ■ KN 61000-4 Series

Power Specifications

The specifications for the various 5108 power supplies are listed in *Table 12*.

Table 12 Power Supply

Variable	UCSB-PSU-2500ACDV				UCSB-PSU-2500DC48	UCSB-PSU-2500HVDC
Input Connector	IEC320 C20				Panduit LCD4-14AF-L[1]	Saf-D-Grid
Input Voltage Range (V rms)	100 to 120 and 200 to 240[2]				-48 to -60	200 to 380
Maximum Allowable Input Voltage Range (V rms)	90 to 132 and 180 to 264[2]				-40 to -72	180 to 400
Frequency Range (Hz)	50 to 60				DC	DC
Maximum Allowable Frequency Range (Hz)	47 to 63				DC	DC
Maximum Rated Output (W)	1300/2500[3]				2500	2500
Nominal Input Voltage (V rms)	100	120	208	230	-48	380
Nominal Input Current (A rms)	14.9	12.4	13.8	12.3	59.2	7.3
Maximum Input at Nominal Input Voltage (W)	1444	1444	2778	2747	2840	2778
Maximum Input at Nominal Input Voltage (VA)	1489	1489	2863	2832	2840	2778
Minimum Rated Efficiency (%)[4]	90	90	90	91	88	90
Minimum Rated Power Factor[4]	0.97	0.97	0.97	0.97	NA	NA
Maximum Inrush Current (A peak)	35				90	35
Maximum Inrush Current (ms)	0.2				0.2	0.2
Minimum Ride-Through Time (ms)[5]	12				4	12

Notes . . .

1. Barrel-type terminal with 90-degree angle, two-hole tongue, which accommodates 1/0 AWG size copper wire. The connector tongue width is 0.81-in, the stud hole spacing is 0.63-in and hole size is 0.25-in

2. Low line operation (100-120VAC input) only supported with 6324 Fabric Interconnect
3. Maximum rated output is limited to 1300W when operating at low-line input voltage (100-120VAC)
4. This is the minimum rating required to achieve 80 PLUS Platinum certification, see test reports published at http://www.80plus.org/for certified values and test reports
5. Time output voltage remains within regulation limits at 100% load, during input voltage dropout

For configuration-specific power specifications, use the Cisco UCS Power Calculator at:

https://ucspowercalc.cisco.com

Environmental Specifications

The environmental specifications for the Cisco UCS 5108 blade chassis are listed in *Table 13*.

Table 13 UCS 5108 Blade Server Environmental Specifications

Parameter	Minimum
Operating Temperature	10°C to 35°C (50°F to 95°F) with no direct sunlight Maximum allowable operating temperature de-rated 1°C/300 m (1°F/547 ft) above 950 m (3117 ft)
Non-operating Temperature	-40°C to 65°C (-40°F to 149°F) Maximum rate of change (operating and non-operating) 20°C/hr
Operating Relative Humidity	8% to 90% and 24°C (75°F) maximum dew-point temperature, non-condensing environment
Non-Operating Relative Humidity	5% to 93% and 33°C (91°F) maximum dew-point temperature, non-condensing environment
Operating Altitude	0 m to 3050 m (10,000 ft)
Non-Operating Altitude	0 m to 12,000 m (39,370 ft)
Non-Operating Vibration	2.2 Grms, 10 minutes per axis on each of the three axes
Operating Shock	Half-sine 2 G, 11 ms pulse, 100 pulses in each direction, on each of the three axes
Non-Operating Shock	Trapezoidal, 25 G, two drops on each of six faces: 175 inches per second each corner on bottom face drop, 90 inches per second each corner on other five faces
Safety	UL60 950-1 No. 21CFR1040, CAN/CSA-C22.2 No. 60950-1, IRAM IEC60950-1, CB IEC60950-1, EN 60950-1, IEC 60950-1, GOST IEC60950-1, SABS/CB IEC6095-1, CCC*/CB GB4943-1995, CNS14336, CB IEC60950-1, AS/NZS 60950-1, GB4943
Immunity	Verified to comply with EN55024, CISPR 24, KN 61000-4 Series, KN 24
Electrostatic Discharge	Tested to ESD levels up to 15 kilovolts (kV) air discharge and up to 8 kV contact discharge without physical damage
Acoustic	■ Sound power: 68.8 dBA at ambient temperature 23° C measured using the Dome Method ■ GOST MsanPiN 001-96Tested to ESD levels up to 15 kilovol

CISCO UCS B200 M6 COMPUTE-ONLY (CO) BLADE SERVER SUPPORTED COMPONENTS

Cisco UCS B200 M6 Compute-Only (CO) Blade Server

The Cisco UCS B200 M6 Blade Server delivers performance, flexibility, and optimization for deployments in data centers, in the cloud, and at remote sites. This enterprise-class server offers market-leading performance, versatility, and density without compromise for workloads,

The enterprise-class Cisco UCS B200 M6 blade server extends the capabilities of Cisco's Unified Computing

System portfolio in a half-width blade form factor. It includes:

- 3rd Gen Intel® Xeon® Scalable and processors with up to 40 cores per socket
- Up to 32 DDR4 DIMMs for improved performance
- Up to 2 M.2 SATA drives
- Up to 80 Gbps of I/O throughput

Cisco Compute-Only (CO) nodes serve two purposes: expanding hyperconverged node or connecting to external storage like Everpure Flash Array

A) Expanding Cisco Compute Hyperconverged node cluster with Compute-Only (CO) node:

Cisco's Compute-Only (CO) node solution enables you to expand the compute resources of Cisco Hyperconverged cluster running Nutanix by adding UCS certified servers without additional storage. These storage-less, Cisco certified Compute-Only (CO) servers integrate seamlessly into your existing or new hyperconverged Nutanix cluster, allowing organizations to efficiently support CPU-intensive applications by scaling processing resources independently of storage infrastructure.

Key benefits:

- Cost-effective scaling for compute-heavy workloads
- Flexibility in cluster design

Table 14 Minimum Cluster Requirements For Compute-Only (CO) Nodes

Cluster Attributes	Hyperconverged node with Compute-Only (CO) node
Number of nodes	Minimum 3 HCI nodes and minimum 2 CO nodes
Nodes Ratio	Nutanix recommends the following nodes ratio: ■ 1 CO : 2 HCI (Default) ■ 1 CO : 1 HCI (This is supported only when the total number of VMs is less than or equal to 128 times the number of HCI nodes) For more information about the minimum cluster requirements, please refer to the following Nutanix Documentation
Hypervisor specification	■ Hyperconverged Node: AHV only ■ Compute-Only (CO) Node: AHV only
Licensing: Expanding Cisco HCI cluster with Compute-Only (CO) nodes	■ NCI licenses on a per-core basis ■ For more information about NCI licenses, see NCI section in Nutanix Cloud Platform Software Options

Table 14 Minimum Cluster Requirements For Compute-Only (CO) Nodes

Cluster Attributes	Hyperconverged node with Compute-Only (CO) node
Nutanix Cloud Platform Software	Same as Cisco Compute Hyperconverged with Nutanix.

Delivering performance, versatility and density without compromise, the Cisco Compute-Only (CO) Node addresses the broadest set of workloads.

B) Cisco Compute-Only (CO) node connected to Everpure Flash Array (Flashstack with Nutanix)

Everpure® FlashArray//X™ and FlashArray//XL™ delivers mission-critical performance with the efficiency and resiliency that's missing from legacy arrays. FlashArray //X and FlashArray//XL™ packs more IOPS, ultra consistent latency, and greater scale into a smaller footprint. Non-disruptive upgrades, always-on availability, and built-in data protection ensure workloads are always running while cutting risk. FlashArray//XL is designed to provide the highest performance density with a level of operational and management simplicity. FlashArray//C™ delivers a balanced all-flash storage solution optimized for file services and general-purpose workloads. With predictable performance, streamlined operations, and built-in cyber resiliency, it keeps applications consistently secure and positions organizations to outperform capacity-optimized, all-flash, and hybrid storage alternatives.

Nutanix Cloud Platform (NCP) consolidates computing, storage, and networking into a unified pool. It uses AOS for storage, AHV for virtualization, and Prism Central for centralized management across environments.

The Cisco Compute-Only (CO) node with Nutanix Cloud Platform (NCP) and Everpure FlashArray solution delivers a disaggregated infrastructure architecture that enables independent scaling of compute and storage resources. This solution combines industry-standard Cisco Compute-Only (CO) node servers running Nutanix AHV and AOS connected to external Everpure. The FlashStack solution with Nutanix integration provides organizations with the agility to adapt infrastructure resources dynamically while maintaining enterprise-level reliability and performance.

Key Benefits:

- Independent Scalability: Scale compute and storage resources separately based on workload demands
- Enterprise-Grade Protection: Built-in data protection and disaster recovery capabilities
- Hybrid Cloud Ready: Seamlessly extend operations across on-premises and cloud environments

Investment protection – enables using Nutanix Cloud Platform with existing storage.

Table 15 Minimum Cluster Requirements For Compute-Only (CO) Nodes

Attributes	Cisco Compute-Only (CO) node connected to Everpure FlashArray
Cisco Compute-Only (CO) nodes.	Nutanix Foundation allocates the following minimum resources to the CVM: (Dependent on AOS version) ■ CVM logical cores: 12 ■ CPU physical cores per Socket: 12 **NOTE:** For AOS releases earlier than version 7.6: CVM logical cores: 16, CPU physical cores per socket: 16 ■ vRAM (in GiB): 32 For additional information, please refer to the following Nutanix documentations: Configuration Maximums and Minimums for NCP with Everpure FlashArray Requirements for NCI Compute Cluster Setup (Please leverage Nutanix Sizer for all customer workload sizing.) ■ M.2 boot drives with M.2 RAID controller (A minimum 480GB is recommended) ■ Storage protocol: NVMe over Fabric (NVMeoF) over TCP ■ 25Gb Ethernet network connection recommended between Cisco Nutanix Compute cluster and Everpure FlashArray (10Gb will be supported) ■ Minimum 3 CO nodes
Hypervisor	AHV only
Management	Intersight Management Mode (IMM)
Everpure	FlashArray //X, FlashArray //XL, and FlashArray //C
Nutanix Cloud Platform Software	Supported Nutanix Software: ■ Nutanix Cloud Infrastructure (NCI) ■ Nutanix Cloud Manager (NCM) ■ Nutanix Cloud Platform (NCP) ■ Nutanix Kubernetes Platform (NKP) ■ Nutanix Enterprise AI (NAI)
Licensing:	■ Nutanix Cloud Infrastructure (NCI) licenses on a per-core basis. ■ 1,000 cores for Canada, Zone 2 USA: USA Enterprise (East, West, North), USA Federal and USA Healthcare ■ 300 cores for the rest of the world. Japan, APAC ex Japan, EMEA, LATAM, Zone 1 USA: US Commercial, US SLED, US Channel Led. ■ For more information about NCI licenses, see NCI section in Nutanix Cloud Platform Software Options



WARNING: Cisco Compute-Only (CO) nodes connected to Everpure Flash Array do not support Virtual Desktop Infrastructure (VDI) solution



WARNING: Cisco 6600 series Fabric Interconnect does not currently support B200 M6 Compute-Only (CO) nodes.

BASE SERVER SKU

Table 16 PID of the Base UCS B200 M6 Compute-Only (CO) Blade Server

Product ID (PID)	Description
UCSB-B200-M6	UCS B200 M6 Compute-Only (CO) Blade Server without CPU, memory, drive bays, drives, VIC adapter, or mezzanine adapters (as a blade chassis option)
UCSB-B200-M6-U	UCS B200 M6 Compute-Only (CO) Blade Server without CPU, memory, drive bays, drives, VIC adapter, or mezzanine adapters

MANAGEMENT MODE

The servers can be interconnected and managed in **Intersight Managed mode only**:

- The nodes are connected to a pair of Cisco UCS 6400 Series or a pair of Cisco UCS 6500 Series interconnects that are entirely managed from Intersight (SaaS, PVA or CVA).
- All Servers are connected to the same pair of fabric interconnect.

Cluster Scale and Limits

Table 17 Hyperconverged (HCI) node with Compute-Only (CO) node Cluster scale and limits

Hyperconverged (HCI) node with Compute-Only (CO) node	Limit
	Intersight Managed (IMM)
Min. Cluster Size	Minimum 3 HCI nodes and minimum 2 CO nodes
Max. Cluster Size	32
Initial cluster deployment /Node preparation for expansion	16
Cluster expansion	8 at a time
Number of parallel deployments in FC	32

Table 18 Cisco Compute-Only (CO) node connected to Everpure FlashArray Cluster scale and limits

Cisco Compute-Only (CO) node connected to Everpure FlashArray	Limit
	Intersight Managed (IMM)
Min. Cluster Size	3 Compute-Only nodes
Max. Cluster Size	32
Initial cluster deployment /Node preparation for expansion	16
Cluster expansion	8 at a time
Number of parallel deployments in FC	32

CPU(S)

The standard CPU features are:

- 3rd Gen Intel® Xeon® Scalable Processors (Ice Lake)
- Intel® C621A series chipset
- Cache size of up to 60 MB
- Up to 40 cores

CPUs

The CPUs are listed in *Table 19*. See *Table 20 on page 32* for CPU suffix notations.

Table 19 CPUs

Product ID (PID)	Clock Freq (GHz)	Power (W)	Cache Size (MB)	Cores	UPI[1] Links (GT/s)	Highest DDR4 DIMM Clock Support (MHz)[2]
8000 Series Processors						
UCS-CPU-I8362	2.8	265	48	32	3 at 11.2	3200
UCS-CPU-I8360Y	2.4	250	54	36	3 at 11.2	3200
UCS-CPU-I8358	2.6	250	48	32	3 at 11.2	3200
UCS-CPU-I8351N[3]	2.4	225	54	36	0	2933
6000 Series Processors						
UCS-CPU-I6348	2.6	235	42	28	3 at 11.2	3200
UCS-CPU-I6346	3.1	205	36	16	3 at 11.2	3200
UCS-CPU-I6342	2.8	230	36	24	3 at 11.2	3200
UCS-CPU-I6338N	2.2	185	48	32	3 at 11.2	2666
UCS-CPU-I6338T	2.1	165	36	24	3 at 11.2	3200
UCS-CPU-I6338	2.0	205	48	32	3 at 11.2	3200
UCS-CPU-I6336Y	2.4	185	36	24	3 at 11.2	3200
UCS-CPU-I6330N	2.2	165	42	28	3 at 11.2	2666
UCS-CPU-I6330	2.0	205	42	28	3 at 11.2	2933
UCS-CPU-I6326	2.9	185	24	16	3 at 11.2	3200
UCS-CPU-I6314U[4]	2.3	205	48	32	0	3200
UCS-CPU-I6312U[5]	2.4	185	36	24	0	3200
5000 Series Processors						
UCS-CPU-I5320T	2.3	150	30	20	3 at 11.2	2933
UCS-CPU-I5320	2.2	185	39	26	3 at 11.2	2933
UCS-CPU-I5318N	2.1	150	36	24	3 at 11.2	2666
UCS-CPU-I5318Y	2.1	165	36	24	3 at 11.2	2933
4000 Series Processors						

Table 19 CPUs

Product ID (PID)	Clock Freq (GHz)	Power (W)	Cache Size (MB)	Cores	UPI[1] Links (GT/s)	Highest DDR4 DIMM Clock Support (MHz)[2]
UCS-CPU-I4316	2.3	150	30	20	2 at 10.4	2666
UCS-CPU-I4314	2.4	135	24	16	2 at 10.4	2666

Notes . . .

1. UPI = Ultra Path Interconnect.
2. If higher or lower speed DIMMs are selected than what is shown in *Table 19 on page 31* for a given CPU speed, the DIMMs will be clocked at the lowest common denominator of CPU clock and DIMM clock.
3. The maximum number of UCS-CPU-I8351N CPUs supported is one
4. The maximum number of UCS-CPU-I6314U CPUs supported is one
5. The maximum number of UCS-CPU-I6312U CPUs supported is one

Table 20 CPU Suffixes

CPU Suffix	Description	Features
N	Networking Optimized	Optimized for use in networking applications like L3 forwarding, 5G UPF, OVS DPDK, VPP FIB router, VPP IPsec, web server/NGINX, vEPC, vBNG, and vCMTS. SKUs have higher base frequency with lower TDPs to enable best performance/Watt
P	Cloud Optimized	SKU specifically designed for cloud IaaS environments to deliver higher frequencies at constrained TDPs
V	Cloud Optimized	SKUs specifically designed for cloud environments to deliver high rack density and maximize VM/cores per TCO$
T	High T case	SKUs designed for Network Environment-Building System (NEBS) environments
U	1-socket Optimized	Optimized for targeted platforms adequately served by the cores, memory bandwidth and IO capacity available from a single processor
S	Max SGX enclave size	Supports Max SGX enclave size (512GB) to enhance and protect the most sensitive portions of a workload or service
M	Media and AI optimized	Media, AI and HPC Segment Optimized for lower TDP & higher frequencies delivering better perf/w
Y	Speed Select – Performance Profile	Intel® Speed Select Technology provides the ability to set a guaranteed base frequency for a specific number of cores, and assign this performance profile to a specific application/workload to guarantee performance requirements. It also provides the ability to configure settings during runtime and provide additional frequency profile configuration opportunities.

Supported Configurations

(1) One-CPU Configuration

(2) Two-CPU Configuration



NOTE:

- You should not have two I8351N or two I6314U or I6312U CPUs in a two-CPU configuration.
- If you have a server with one I8351N CPU or one I6314U CPU or one I6312U CPU you cannot upgrade to a 2-CPU system with two of these CPUs.



CAUTION: In *Table 21*, systems configured with the processors shown must adhere to the ambient inlet temperature thresholds specified. If not, a fan fault or executing workloads with extensive use of heavy instructions sets such as Intel® Advanced Vector Extensions 512 (Intel® AVX-512) may assert thermal and/or performance faults with an associated event recorded in the System Event Log (SEL). *Table 21* describes the configuration restrictions to ensure proper cooling and avoid excessive processor throttling, which may impact system performance.

Table 21 Ambient Temperature and Configuration Restrictions

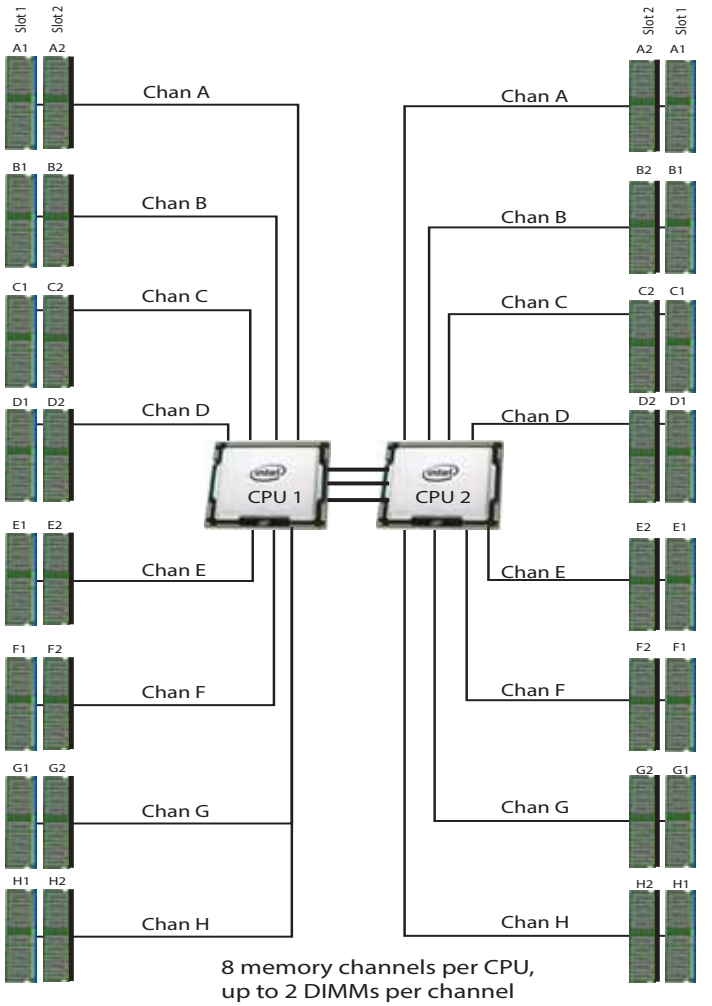
Processor Thermal Design Power (TDP)	CPU Product ID (PID)	Blade Slot	Ambient Temperature Limit	Configuration Restrictions
Any	Any	Any	27 °C (80.6 °F)	None
Any	UCS-CPU-I6314U UCS-CPU-I8351N	Any	27 °C (80.6 °F)	Limited to single processor configurations

MEMORY

The memory for the B200 M6 is as follows:

- Clock speed: 3200 MHz
- Ranks per DIMM: 1, 2, 4, or 8
- Operational voltage: 1.2 V
- Registered ECC DDR4 DIMMS (RDIMMs), Load-reduced DIMMs (LRDIMMs)
- Memory is organized with eight memory channels per CPU, with up to two DIMMs per channel, as shown in *Figure 6*

Figure 6 B200 M6 Memory Organization



DIMMs

The memory configuration are listed in *Table 22*.

Table 22 DDR4 DIMMs

Product ID (PID)	PID Description	Voltage	Ranks /DIMM
DIMMs			
UCS-MR-X16G1RW	16 GB RDIMM SRx4 3200 (8Gb)	1.2 V	1
UCS-MR-X32G1RW	32 GB RDIMM SRx4 3200 (16Gb)	1.2 V	1
UCS-MR-X32G2RW	32 GB RDIMM DRx4 3200 (8Gb)	1.2 V	2
UCS-MR-X64G2RW	64 GB RDIMM DRx4 3200 (16Gb)	1.2 V	2
UCS-ML-128G4RW	128 GB LRDIMM QRx4 3200 (16Gb) (non-3DS)	1.2 V	4

Note: Refer to **Cisco UCS C220/C240/B200 M6 Memory Guide** for more information.

MLOM REAR MEZZANINE ADAPTER

The UCS B200 M6 must have Cisco VIC mLOM Adapter. The adapter can operate in a single-CPU or dual-CPU configuration. *Table 23* shows mLOM adapter choices.

Table 23 mLOM Adapters

Product ID (PID)	Description	Connector
UCSB-MLOM-40G-04	Cisco UCS VIC 1440 modular LOM for blade servers	mLOM

Table 24 Aggregate Bandwidth with mLOM Only configuration

mLOM	Fabrics Extenders in UCS 5108 blade chassis aggregate bandwidth (Gb/s)		
	2x 2408	2x 2304V2	2 x 6400 or 6500 Series FI
VIC 1440 mLOM	40	40	Yes

Cisco developed the 1400 Series Virtual Interface Card (VIC) to provide flexibility to create multiple NIC and HBA devices. The VIC features are listed here:

- Includes enhancements, including network overlay offload support.
- Delivers up to 80 Gbps total I/O throughput to the server
- Supports 2x40 (native) Gbps Unified I/O ports
- Supports up to 256 fully functional unique and independent PCIe adapters and interfaces
- Provides virtual machine visibility from the physical network and a consistent network operations model for physical and virtual servers
- Supports customer requirements for a wide range of operating systems and hypervisors

The supported Fabric Extenders for the B200 M6 blades are

- Cisco UCS 2304 (v2) Fabric Extender
- Cisco UCS 2408 Fabric Extenders

The supported Fabric Interconnects for the B200 M6 blades are

- Cisco UCS 6400/6500 series Fabric Interconnects

REAR MEZZANINE ADAPTERS (VIC)

The UCS B200 M6 has one rear mezzanine adapter connector. The UCS B200 M6 can be with or without a rear mezzanine adapter. Refer to below table for supported adapters.

Table 25 Rear Mezzanine Adapters

Product ID(PID)	PID Description	CPUs Required	Connector
Port Expander Card for VIC This is a hardware option to enable an additional 4 ports of the VIC 1440, bringing the total capability of the VIC 1440 to a dual native 40G interface.			
UCSB-MLOM-PT-01	Cisco UCS Port Expander Card for VIC	1 or 2 CPUs	Rear Mezzanine
Cisco VIC Card			
UCSB-VIC-M84-4P	Cisco UCS VIC 1480 mezzanine adapter	2 CPUs required	Rear Mezzanine

Supported Configurations

- Requires an mLOM
- See *Table 26* for aggregate bandwidths with various rear mezzanine cards installed.

Table 26 Aggregate Bandwidth with Rear Mezzanine Cards Installed

Rear Mezz Adapter	Fabric Extenders in UCS5108 blade chassis Aggregate Bandwidth (Gb/s)		Fabric Interconnects Support
	2x 2408	2x 2304V2	2 x 6400 or 6500 Series FI
1440+ Port Expander	80[1]	80[2, 3]	Yes
VIC 1480	80[4]	80[4]	Yes

Notes . . .

1. Uses a dual native 40G interface. The maximum single-flow is 25 Gbps with an aggregate of 40 Gbps. To avoid IOM/Fabric Extender transient drops due to a speed mismatch of 40 Gbps towards the server and 25 Gbps towards the fabric interconnect (FI), vNIC rate-limiting to 25 Gbps is recommended
2. Uses a dual native 40G interface
3. If operating in 4 x 10 mode, bandwidth drops down to 40 Gbps (two 2 x 10 G port-channeled)
4. Four 2x10 Gbps port-channels

M.2 DRIVES

■ Two matching M.2 SATA SSDs (see *Table 27*) along with a mini storage carrier or a boot-optimized RAID controller (see *Table 28*).

NOTE: It is recommended that M.2 SATA SSDs be used as boot-only devices.

Table 27 M.2 SATA SSDs

Product ID (PID)	PID Description
UCS-M2-240G	240GB SATA M.2
UCS-M2-480G	480GB M.2 SATA SSD
UCS-M2480OA1V	480GB M.2 Boot Solidigm S4520 SATA 1X SSD

■ Either the Mini Storage carrier or the Boot-Optimized RAID controller from *Table 28*.

NOTE:

- The UCS-M2-HWRAID boot-optimized RAID controller supports RAID 1 and JBOD mode
- Hot-plug replacement is not supported. The server must be powered off.
- The UCS-MSTOR-M2 mini storage carrier control the M.2 SATA drives with no RAID control.
- The UCS-M2-HWRAID Boot-Optimized RAID controller for hardware RAID across the two internal SATA M.2 drives. The Boot-Optimized RAID controller holds up to 2 matching M.2 SATA drives.

Table 28 Mini Storage Carrier/Boot-Optimized RAID Controller

Product ID (PID)	PID Description
UCS-M2-HWRAID	Cisco Boot optimized M.2 RAID controller (holds up to 2 M.2 SATA SSDs)

Caveats

- You cannot mix M.2 SATA SSDs
- Two identical M.2 SATA SSDs for the mini-storage carrier or boot-optimized RAID controller.
- You cannot mix M.2 SATA SSD capacities.

TRUSTED PLATFORM MODULE

Trusted Platform Module (TPM) is a computer chip or microcontroller that can securely store artifacts used to authenticate the platform or server. These artifacts can include passwords, certificates, or encryption keys. A TPM can also be used to store platform measurements that help ensure that the platform remains trustworthy. Authentication (ensuring that the platform can prove that it is what it claims to be) and attestation (a process helping to prove that a platform is trustworthy and has not been breached) are necessary steps to ensure safer computing in all environments.

Table 29 TPM Option

Product ID (PID)	Description
UCSX-TPM-002C	TPM 2.0, TCG, FIPS140-2, CC EAL4+ Certified, for M6 servers
UCS-TPM-002D	TPM 2.0 TCG FIPS140-2 CC+ Cert M6 Intel MSW2022 Compliant
UCSX-TPM-OPT-OUT	OPT OUT, TPM 2.0, TCG, FIPS140-2, CC EAL4+ Certified[1]

Notes . . .

1. Please note that Microsoft certification requires a TPM 2.0 for bare-metal or guest VM deployments. Opt-out of the TPM 2.0 voids the Microsoft certification



NOTE:

- The TPM module used in this system conforms to TPM v2.0 as defined by the Trusted Computing Group (TCG).
- TPM installation is supported after-factory. However, a TPM installs with a one-way screw and cannot be replaced, upgraded, or moved to another server. If a server with a TPM is returned, the replacement server must be ordered with a new TPM. If there is no existing TPM in the server, you can install TPM 2.0. Refer to the following document for Installation location and instructions: Cisco UCS B200 M6 Server Installation Guide.

Retrofit UCS 5108 chassis and B200 M6 servers

You can retrofit UCS 5108 chassis and B200 M6 servers with spare components.

Table 30 Retrofit UCS 5108 chassis and B200 M6 server spare components

Product ID (PID)	Product Description	End-of-Sale and End-of-Life
UCS-ML-128G4RW=[1]	128GB LRDIMM QRx4 3200 (16Gb)	N/A
UCS-MR-X64G2RW=[1]	64GB RDIMM DRx4 3200 (16Gb	End-of-Sale and End-of-Life Announcement for the Cisco Select UCS Accessories
UCS-M2-240G=	240GB SATA M.2	N/A
UCS-M2-480G=	480GB M.2 SATA SSD	
UCS-M2480OA1V=	480GB M.2 Boot Solidigm S4520 SATA 1X SSD	
UCS-M2-HWRAID=	Cisco Boot optimized M.2 Raid controller	
UCSB-VIC-M84-4P=	Cisco UCS VIC 1480 MEZZ for B-Series	
UCSB-MLOM-40G-04=	Cisco UCS VIC 1440 modular LOM for Blade Servers	End-of-Sale and End-of-Life Announcement for the Ciso Select UCS, UCSX and HCI accessories
UCSB-MLOM-PT-01=	Cisco UCS Port Expander Card (mezz) for VIC	
UCS-IOM-2408=	UCS 2408 I/O Module (8 External 25Gb Ports, 32 Internal 10Gb	

Notes . . .

1. For details on Memory configuration, refer to the **B200 M6 Memory guide**.

NOTE: Please reference the End-of-Sale and End-of-Life announcement frequently to check the availability of the components

TECHNICAL SPECIFICATIONS

Dimensions and Weight

Table 31 UCS B200 M6 Dimensions and Weight

Parameter	Value
Height	1.95 in. (50 mm)
Width	8.35 in.(212 mm)
Depth	24.4 in. (620 mm)
Weight	■ Base server weight = 10.0 lbs (4.54 kg) (no HDDs, no CPUs, no DIMMs, no mezzanine adapters or memory) ■ Minimally configured server weight = 10.08 lbs (4.57 kg) (no HDDs, 2 CPUs, 2 DIMMs, VIC 1440 but no additional mezzanine adapter ■ Fully configured server weight = 18.14 lbs (8.23 kg) (2 HDDs, 2 CPUs, 32 DIMMs, VIC 1440 and additional mezzanine adapter both populated)

Power Specifications

For configuration-specific power specifications, use the Cisco UCS Power Calculator at:

http://ucspowercalc.cisco.com



NOTE: The B200 M6 has a power cap of 960 Watts for all combinations of components (CPUs, DIMMs, drives, and so on).

CISCO UCS B200 M5 COMPUTE-ONLY (CO) BLADE SERVER SUPPORTED COMPONENTS

Cisco UCS B200 M5 Compute-Only (CO) Blade Server

The Cisco UCS B200 M5 Blade Server delivers performance, flexibility, and optimization for deployments in data centers, in the cloud, and at remote sites. This enterprise-class server offers market-leading performance, versatility, and density without compromise for workloads

The enterprise-class Cisco UCS B200 M5 blade server extends the capabilities of Cisco's Unified Computing System portfolio in a half-width blade form factor.

The Cisco UCS B200 M5 includes support for the following:

- 2nd Gen Intel® Xeon® Scalable and Intel Xeon Scalable processors with up to 28 cores per socket
- Up to 24 DDR4 DIMMs for improved performance
- Up to M.2 SATA drives
- Up to 80 Gbps of I/O throughput

Cisco Compute-Only (CO) nodes serve two purposes: expanding hyperconverged node or connecting to external storage like Everpure Flash Array

A) Expanding Cisco Compute Hyperconverged node cluster with Compute-Only (CO) node:

Cisco's Compute-Only (CO) node solution enables you to expand the compute resources of Cisco Hyperconverged cluster running Nutanix by adding UCS certified servers without additional storage. These storage-less, Cisco certified Compute-Only (CO) servers integrate seamlessly into your existing or new hyperconverged Nutanix cluster, allowing organizations to efficiently support CPU-intensive applications by scaling processing resources independently of storage infrastructure.

Key benefits:

- Cost-effective scaling for compute-heavy workloads
- Flexibility in cluster design

Table 32 Minimum Cluster Requirements For Compute-Only (CO) Nodes

Cluster Attributes	Hyperconverged node with Compute-Only (CO) node
Number of nodes	Minimum 3 HCI nodes and minimum 2 CO nodes
Nodes Ratio	Nutanix recommends the following nodes ratio: ■ 1 CO : 2 HCI (Default) ■ 1 CO : 1 HCI (This is supported only when the total number of VMs is less than or equal to 128 times the number of HCI nodes) For more information about the minimum cluster requirements, please refer to the following Nutanix Documentation
Hypervisor specification	■ Hyperconverged Node: AHV only ■ Compute-Only (CO) Node: AHV only

Table 32 Minimum Cluster Requirements For Compute-Only (CO) Nodes

Cluster Attributes	Hyperconverged node with Compute-Only (CO) node
Licensing: Expanding Cisco HCI cluster with Compute-Only (CO) nodes	■ NCI licenses on a per-core basis ■ For more information about NCI licenses, see NCI section in Nutanix Cloud Platform Software Options
Nutanix Cloud Platform Software	Same as Cisco Compute Hyperconverged with Nutanix.

Delivering performance, versatility and density without compromise, the Cisco Compute-Only (CO) Node addresses the broadest set of workloads.

B) Cisco Compute-Only (CO) node connected to Everpure Flash Array (Flashstack with Nutanix)

Everpure® FlashArray//X™ and FlashArray//XL™ delivers mission-critical performance with the efficiency and resiliency that's missing from legacy arrays. FlashArray //X and FlashArray//XL™ packs more IOPS, ultra consistent latency, and greater scale into a smaller footprint. Non-disruptive upgrades, always-on availability, and built-in data protection ensure workloads are always running while cutting risk. FlashArray//XL is designed to provide the highest performance density with a level of operational and management simplicity. FlashArray//C™ delivers a balanced all-flash storage solution optimized for file services and general-purpose workloads. With predictable performance, streamlined operations, and built-in cyber resiliency, it keeps applications consistently secure and positions organizations to outperform capacity-optimized, all-flash, and hybrid storage alternatives.

Nutanix Cloud Platform (NCP) consolidates computing, storage, and networking into a unified pool. It uses AOS for storage, AHV for virtualization, and Prism Central for centralized management across environments.

The Cisco Compute-Only (CO) node with Nutanix Cloud Platform (NCP) and Everpure FlashArray solution delivers a disaggregated infrastructure architecture that enables independent scaling of compute and storage resources. This solution combines industry-standard Cisco Compute-Only (CO) node servers running Nutanix AHV and AOS connected to external Everpure. The FlashStack solution with Nutanix integration provides organizations with the agility to adapt infrastructure resources dynamically while maintaining enterprise-level reliability and performance.

Key Benefits:

- Independent Scalability: Scale compute and storage resources separately based on workload demands
- Enterprise-Grade Protection: Built-in data protection and disaster recovery capabilities
- Hybrid Cloud Ready: Seamlessly extend operations across on-premises and cloud environments

- Investment protection – enables using Nutanix Cloud Platform with existing storage.

Table 33 Minimum Cluster Requirements For Compute-Only (CO) Nodes

Attributes	Cisco Compute-Only (CO) node connected to Everpure FlashArray
Cisco Compute-Only (CO) nodes.	Nutanix Foundation allocates the following minimum resources to the CVM: (Dependent on AOS version) ■ CVM logical cores: 12 ■ CPU physical cores per Socket: 12 **NOTE:** For AOS releases earlier than version 7.6: CVM logical cores: 16, CPU physical cores per socket: 16 ■ vRAM (in GiB): 32 For additional information, please refer to the following Nutanix documentations: Configuration Maximums and Minimums for NCP with Everpure FlashArray Requirements for NCI Compute Cluster Setup (Please leverage Nutanix Sizer for all customer workload sizing.) ■ M.2 boot drives with M.2 RAID controller (A minimum 480GB is recommended) ■ Storage protocol: NVMe over Fabric (NVMeoF) over TCP ■ 25Gb Ethernet network connection recommended between Cisco Nutanix Compute cluster and Everpure FlashArray (10Gb will be supported) ■ Minimum 3 CO nodes
Hypervisor	AHV only
Management	Intersight Management Mode (IMM)
Everpure	FlashArray //X, FlashArray //XL, and FlashArray //C
Nutanix Cloud Platform Software	Supported Nutanix Software: ■ Nutanix Cloud Infrastructure (NCI) ■ Nutanix Cloud Manager (NCM) ■ Nutanix Cloud Platform (NCP) ■ Nutanix Kubernetes Platform (NKP)
Licensing:	■ Nutanix Cloud Infrastructure (NCI) licenses on a per-core basis. ■ 1,000 cores for Canada, Zone 2 USA: USA Enterprise (East, West, North), USA Federal and USA Healthcare ■ 300 cores for the rest of the world. Japan, APAC ex Japan, EMEA, LATAM, Zone 1 USA: US Commercial, US SLED, US Channel Led. ■ For more information about NCI licenses, see NCI section in Nutanix Cloud Platform Software Options



WARNING: Cisco Compute-Only (CO) nodes connected to Everpure Flash Array do not support Virtual Desktop Infrastructure (VDI) solution



WARNING: Cisco 6600 series Fabric Interconnect does not currently support B200 M5 and M6 Compute-Only (CO) nodes

BASE SERVER SKU

Table 34 PID of the Base UCS B200 M5 Compute-Only (CO) Blade Server

Product ID (PID)	Description
UCSB-B200-M5	UCS B200 M5 Compute-Only (CO) Blade Server without CPU, memory, drive bays, HDD, VIC adapter, or mezzanine adapters (as a blade chassis option)
UCSB-B200-M5-U	UCS B200 M5 Compute-Only (CO) Blade Server without CPU, memory, drive bays, HDD, VIC adapter, or mezzanine adapters

MANAGEMENT MODE

The servers can be interconnected and managed in **Intersight Managed mode only**:

- The nodes are connected to a pair of Cisco UCS 6400 Series or a pair of Cisco UCS 6500 Series interconnects that are entirely managed from Intersight (SaaS, PVA or CVA).
- All Servers are connected to the same pair of fabric interconnect.

Cluster Scale and Limits

Table 35 Hyperconverged (HCI) node with Compute-Only (CO) node Cluster scale and limits

Hyperconverged (HCI) node with Compute-Only (CO) node	Limit
	Intersight Managed (IMM)
Min. Cluster Size	Minimum 3 HCI nodes and minimum 2 CO nodes
Max. Cluster Size	32
Initial cluster deployment /Node preparation for expansion	16
Cluster expansion	8 at a time
Number of parallel deployments in FC	32

Table 36 Cisco Compute-Only (CO) node connected to Everpure FlashArray Cluster scale and limits

Cisco Compute-Only (CO) node connected to Everpure FlashArray	Limit
	Intersight Managed (IMM)
Min. Cluster Size	3 Compute-Only nodes
Max. Cluster Size	32
Initial cluster deployment /Node preparation for expansion	16
Cluster expansion	8 at a time
Number of parallel deployments in FC	32

CPU(S)

The standard CPU features are:

- 2nd Generation Intel® Xeon® scalable processor family CPUs. (**Note**: 1st Generation Intel® Xeon® scalable processor is not supported)
- Intel® C621 series chipset
- Please refer to the notes below on ambient inlet temperature requirements and allowed Mezz Card Configuration due to CPU thermal requirements.



CAUTION: In *Table 38*, systems configured with the processors shown must adhere to the ambient inlet temperature thresholds specified. If not, a fan fault or executing workloads with extensive use of heavy instructions sets such as Intel® Advanced Vector Extensions 512 (Intel® AVX-512) may assert thermal and/or performance faults with an associated event recorded in the System Event Log (SEL). *Table 38* lists ambient temperature limitations below 35° C (95° F) and configuration restrictions to ensure proper cooling and avoid excessive processor throttling, which may impact system performance.

CPUs from *Table 37*.

Table 37 CPUs

Product ID (PID)[1]	Clock Freq (GHz)	Power (W)	Cache Size (MB)	Cores	UPI[2] Links (GT/s)	Highest DDR4 DIMM Clock Support (MHz)[3]	Workload
Cisco Recommended Processors (2nd Generation Intel® Xeon® Processors)							
UCS-CPU-I8276	2.2	165	38.50	28	3 x 10.4	2933	Oracle, SAP
UCS-CPU-I8260	2.4	165	35.75	24	3 x 10.4	2933	Microsoft Azure Stack
UCS-CPU-I6262V	1.9	135	33.00	24	3 x 10.4	2400	Virtual Server infrastructure or VSI
UCS-CPU-I6248R	3.0	205	35.75	24	2 x 10.4	2933	
UCS-CPU-I6248	2.5	150	27.50	20	3 x 10.4	2933	VDI, Oracle, SQL, Microsoft Azure Stack
UCS-CPU-I6238R	2.2	165	38.50	28	2 x 10.4	2933	Oracle, SAP (2-Socket TDI only), Microsoft AzureStack
UCS-CPU-I6238	2.1	140	30.25	22	3 x 10.4	2933	SAP
UCS-CPU-I6230R	2.1	150	35.75	26	2 x 10.4	2933	Virtual Server Infrastructure, Data Protection, Big Data, Splunk, Microsoft AzureStack
UCS-CPU-I6230	2.1	125	27.50	20	3 x 10.4	2933	Big Data, Virtualization
UCS-CPU-I5220R	2.2	150	35.75	24	2 x 10.4	2666	Virtual Server Infrastructure, Splunk, Microsoft Azure Stack
UCS-CPU-I5220	2.2	125	24.75	18	2 x 10.4	2666	HCI

Table 37 CPUs *(continued)*

Product ID (PID)[1]	Clock Freq (GHz)	Power (W)	Cache Size (MB)	Cores	UPI[2] Links (GT/s)	Highest DDR4 DIMM Clock Support (MHz)[3]	Workload
UCS-CPU-I5218R	2.1	125	27.50	20	2 x 10.4	2666	Virtual Server Infrastructure, Data Protection, Big Data, Splunk, Scale-out Object Storage, Microsoft AzureStack
UCS-CPU-I5218	2.3	125	22.00	16	2 x 10.4	2666	Virtualization, Microsoft Azure Stack, Splunk, Data Protection
UCS-CPU-I4216	2.1	100	22.00	16	2 x 9.6	2400	Data Protection, Scale Out Storage
8000 Series Processor							
UCS-CPU-I8280L	2.7	205	38.50	28	3 x 10.4	2933	2nd Gen Intel® Xeon®
UCS-CPU-I8280	2.7	205	38.50	28	3 x 10.4	2933	2nd Gen Intel® Xeon®
UCS-CPU-I8276L	2.2	165	38.50	28	3 x 10.4	2933	2nd Gen Intel® Xeon®
UCS-CPU-I8276	2.2	165	38.50	28	3 x 10.4	2933	2nd Gen Intel® Xeon®
UCS-CPU-I8270	2.7	205	35.75	26	3 x 10.4	2933	2nd Gen Intel® Xeon®
UCS-CPU-I8268	2.9	205	35.75	24	3 x 10.4	2933	2nd Gen Intel® Xeon®
UCS-CPU-I8260Y	2.4	165	35.75	24/20/16	3 x 10.4	2933	2nd Gen Intel® Xeon®
UCS-CPU-I8260L	2.4	165	35.75	24	3 x 10.4	2933	2nd Gen Intel® Xeon®
UCS-CPU-I8260	2.4	165	35.75	24	3 x 10.4	2933	2nd Gen Intel® Xeon®
UCS-CPU-I8253	2.2	125	22.00	16	3 x 10.4	2933	2nd Gen Intel® Xeon®
6000 Series Processor							
UCS-CPU-I6262V	1.9	135	33.00	24	3 x 10.4	2400	2nd Gen Intel® Xeon®
UCS-CPU-I6258R	2.7	205	35.75	28	2 x 10.4	2933	2nd Gen Intel® Xeon®
UCS-CPU-I6254	3.1	200	24.75	18	3 x 10.4	2933	2nd Gen Intel® Xeon®
UCS-CPU-I6252	2.1	150	35.75	24	3 x 10.4	2933	2nd Gen Intel® Xeon®
UCS-CPU-I6248R	3.0	205	35.75	24	2 x 10.4	2933	2nd Gen Intel® Xeon®
UCS-CPU-I6248	2.5	150	27.50	20	3 x 10.4	2933	2nd Gen Intel® Xeon®
UCS-CPU-I6246R	3.4	205	35.75	16	2 x 10.4	2933	2nd Gen Intel® Xeon®
UCS-CPU-I6242R	3.1	205	35.75	20	2 x 10.4	2933	2nd Gen Intel® Xeon®
UCS-CPU-I6242	2.8	150	22.00	16	3 x 10.4	2933	2nd Gen Intel® Xeon®
UCS-CPU-I6240R	2.4	165	35.75	24	2 x 10.4	2933	2nd Gen Intel® Xeon®
UCS-CPU-I6240Y	2.6	150	24.75	18/14/8	3 x 10.4	2933	2nd Gen Intel® Xeon®
UCS-CPU-I6240L	2.6	150	24.75	18	3 x 10.4	2933	2nd Gen Intel® Xeon®
UCS-CPU-I6240	2.6	150	24.75	18	3 x 10.4	2933	2nd Gen Intel® Xeon®
UCS-CPU-I6238R	2.2	165	38.50	28	2 x 10.4	2933	2nd Gen Intel® Xeon®

Table 37 CPUs *(continued)*

Product ID (PID)[1]	Clock Freq (GHz)	Power (W)	Cache Size (MB)	Cores	UPI[2] Links (GT/s)	Highest DDR4 DIMM Clock Support (MHz)[3]	Workload
UCS-CPU-I6238L	2.1	140	30.25	22	3 x 10.4	2933	2nd Gen Intel® Xeon®
UCS-CPU-I6238	2.1	140	30.25	22	3 x 10.4	2933	2nd Gen Intel® Xeon®
UCS-CPU-I6230R	2.1	150	35.75	26	2 x 10.4	2933	2nd Gen Intel® Xeon®
UCS-CPU-I6230N	2.3	125	27.50	20	3 x 10.4	2933	2nd Gen Intel® Xeon®
UCS-CPU-I6230	2.1	125	27.50	20	3 x 10.4	2933	2nd Gen Intel® Xeon®
UCS-CPU-I6226R	2.9	150	22.00	16	2 x 10.4	2933	2nd Gen Intel® Xeon®
UCS-CPU-I6222V	1.8	115	27.50	20	3 x 10.4	2400	2nd Gen Intel® Xeon®
5000 Series Processor							
UCS-CPU-I5220S	2.6	125	19.25	18	2 x 10.4	2666	2nd Gen Intel® Xeon®
UCS-CPU-I5220R	2.2	150	35.75	24	2 x 10.4	2666	2nd Gen Intel® Xeon®
UCS-CPU-I5220	2.2	125	24.75	18	2 x 10.4	2666	2nd Gen Intel® Xeon®
UCS-CPU-I5218R	2.1	125	27.50	20	2 x 10.4	2666	2nd Gen Intel® Xeon®
UCS-CPU-I5218B	2.3	125	22.00	16	2 x 10.4	2933	2nd Gen Intel® Xeon®
UCS-CPU-I5218N	2.3	105	22.00	16	2 x 10.4	2666	2nd Gen Intel® Xeon®
UCS-CPU-I5218	2.3	125	22.00	16	2 x 10.4	2666	2nd Gen Intel® Xeon®
4000 Series Processor							
UCS-CPU-I4216	2.1	100	22.00	16	2 x 9.6	2400	2nd Gen Intel® Xeon®

Notes . . .

1. For additional details on ambient temperature limitation or configuration restrictions see *Table 38*.
2. UPI = Ultra Path Interconnect
3. If higher or lower speed DIMMs are selected than what is shown in the table for a given CPU, the DIMMs will be clocked at the lowest common denominator of CPU clock and DIMM clock.

WARNING: 1st Generation Intel® Xeon® scalable processor is not supported

Table 38 Ambient Temperature and Configuration Restrictions

Processor Thermal Design Power (TDP)	CPU PID	Blade Slot	Ambient Temperature Limitation	Configuration Restriction
Any Y or N SKUs	UCS-CPU-I8260Y UCS-CPU-I6240Y UCS-CPU-I6230N	Any	32°C (90° F)	Front Mezzanine GPU
200 W or 205 W	UCS-CPU-I8280L UCS-CPU-I8280 UCS-CPU-I8270 UCS-CPU-I8268 UCS-CPU-I6254 UCS-CPU-6154	Any		
Frequency optimized 150/165/125 W	UCS-CPU-I6246 UCS-CPU-I6244 UCS-CPU-I5222	Any		
205W R SKUs	UCS-CPU-I6258R UCS-CPU-I6248R UCS-CPU-6246R UCS-CPU-6242R	1 through 7	25° C (77° F)	
	UCS-CPU-I6258R	8		
	UCS-CPU-I6248R UCS-CPU-6246R UCS-CPU-6242R	8	22° C (72° F)	

Supported Configurations

(1) One-CPU Configuration

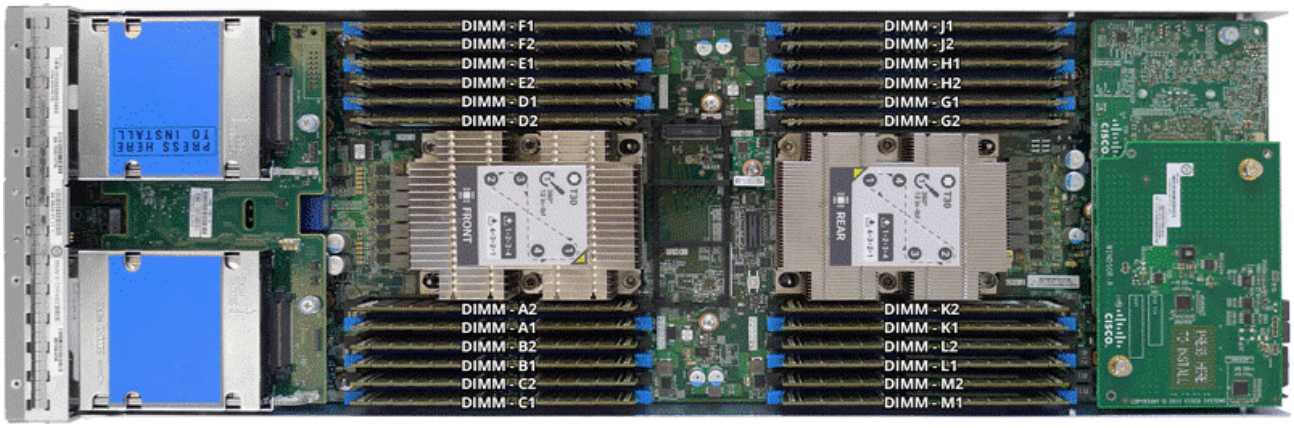
(2) Two-CPU Configuration

MEMORY

The memory for the B200 M5 is as follows:

- Clock speed: Up to 2933 MHz; See available CPUs and their associated DDR4 DIMM maximum clock support in *Table 37*.
- Rank per DIMM: 1, 2, 4, or 8
- Operational voltage: 1.2 V
- Registered ECC DDR4 DIMMS (RDIMMs), Load-reduced DIMMs (LRDIMMs)
- Memory is organized with six memory channels per CPU, with up to two DIMMs per channel, as shown in *Figure 7*.

Figure 7 B200 M5 Memory Organization



24 DIMMs, 6 Memory channels per CPU, up to 2 DIMMs per channel

DIMMs

The memory configuration are listed in *Table 39*.

Table 39 DDR4 DIMMs

Product ID (PID)	PID Description	Voltage	Ranks /DIMM
UCS-ML-256G8RW[1]	256 GB DDR4-3200MHz LRDIMM 8Rx4 (16Gb) (3DS)	1.2 V	8
UCS-ML-128G4RW[1]	128 GB DDR4-3200MHz LRDIMM 4Rx4 (16Gb) (non-3DS)	1.2 V	4
UCS-MR-X64G2RW[1]	64 GB DDR4-3200MHz RDIMM 2Rx4 (16Gb)	1.2 V	2
UCS-MR-X32G2RW[1]	32 GB DDR4-3200MHz RDIMM 2Rx4 (8Gb)	1.2 V	2
UCS-MR-X16G1RW[1]	16 GB DDR4-3200MHz RDIMM 1Rx4 (8Gb)	1.2 V	1

Notes . . .

1. DDR4-3200MHz replacement part numbers will operate at the maximum speed of the Intel 2nd generation Xeon Scalable processor memory interface, ranging from 2133 MHz to 2933 MHz.

NOTE: (1) Cisco doesn't support a Load Reduce DIMM (LRDIMM) 64GB Memory PID as a replacement PID of existing UCS-ML-x64G4RT-H and recommends migrating to the Registered DIMM (RDIMM) instead, delivering the best balance in performance and price.

NOTE:

- System performance is optimized when the DIMM type and quantity are equal for both CPUs, and when all channels are filled equally across the CPUs in the server.

NOTE: Detailed mixing DIMM configurations are described in Cisco UCS **Cisco UCS C220/C240/B200 M5 Memory Guide**

MLOM ADAPTER

The UCS B200 M5 must have Cisco VIC mLOM Adapter. The adapter can operate in a single-CPU or dual-CPU configuration. *Table 40* shows mLOM adapter choices.

Table 40 mLOM Adapters

Product ID (PID)	Description	Connection type
UCSB-MLOM-40G-04	Cisco UCS VIC 1440 modular LOM for blade servers	mLOM
UCSB-MLOM-40G-03	Cisco UCS VIC 1340 modular LOM for blade servers	mLOM

Table 41 Aggregate Bandwidth with mLOM Only configuration

mLOM Only	Fabrics Extenders in UCS 5108 blade chassis Aggregate Bandwidth (Gb/s)		Fabric Interconnects Support
	2x 2408	2x 2304V2	2 x 6400 or 6500 Series FI
VIC 1440 mLOM	40[1]	40[1]	Yes
VIC 1340 mLOM	40[1]	40[1]	Yes

Notes . . .

1. These configurations implement two 2x10 Gbps port-channels

Cisco developed 1300 and 1400 Series Virtual Interface Cards (VICs) to provide flexibility to create multiple NIC and HBA devices.The VIC features are listed here:

- VICs include enhancements including network overlay offload support.
- Delivers up to 80 Gbps total I/O throughput to the server
- VIC supports either max dual 4x10Gbps Unified I/O ports or 2x40 (native) Gbps Unified I/O ports
- Supports up to 256 fully functional unique and independent PCIe adapters and interfaces
- Provides virtual machine visibility from the physical network and a consistent network operations model for physical and virtual servers
- Supports customer requirements for a wide range of operating systems and hypervisors

The supported Fabric Extenders for the B200 M5 blades are:

- Cisco UCS 2408 Fabric Extender
- Cisco UCS 2304V2 Fabric Extender

The supported Fabric Interconnects for the B200 M5 blades are:

- Cisco UCS 6400/6500 series Fabric Interconnects

REAR MEZZANINE ADAPTERS (VIC)

The UCS B200 M5 has one rear mezzanine adapter connector. The UCS B200 M5 can be with or without a rear mezzanine adapter. Refer to *Table 42 Rear Mezzanine Adapters* for supported adapters.

Table 42 Rear Mezzanine Adapters

Product ID(PID)	PID Description	CPUs Required	Connector Type
Port Expander Card for VIC This is a hardware option to enable an additional 4 ports of the VIC 1340, bringing the total capability of the VIC 1340 to a dual native 40G interface or a dual 4 x 10 GbE port-channeled interface, respectively.			
UCSB-MLOM-PT-01	Cisco UCS Port Expander Card for VIC	1 or 2 CPUs	Rear Mezzanine
Cisco VIC Card			
UCSB-VIC-M84-4P	Cisco UCS VIC 1480 mezzanine adapter	2 CPUs required	Rear Mezzanine
UCSB-VIC-M83-8P	Cisco UCS VIC 1380 mezzanine adapter	2 CPUs required	Rear Mezzanine

Supported Configurations

- Requires an mLOM
- You cannot mix a 1340 with a 1480 or a 1440 and a 1380)

See *Table 43* for aggregate bandwidths with various rear mezzanine cards installed.

Table 43 Aggregate Bandwidth with Rear Mezzanine Cards Installed

Rear Mezz Adapter	IO Modules in UCS5108 blade chassis Aggregate Bandwidth (Gb/s)		Fabric Interconnects Support
	2x 2408	2x 2304V2	2 x 6400 or 6500 Series FI
VIC 1380 mezz	80	80	Yes
VIC 1480 mezz	80	80	Yes

M.2 DRIVES

■ One or two matching M.2 SATA SSDs (see *Table 44*) along with a mini storage carrier or a boot-optimized RAID controller (see *Table 45*).

NOTE: It is recommended that M.2 SATA SSDs be used as boot-only devices.

Table 44 M.2 SATA SSDs

Product ID (PID)	PID Description
UCS-M2-240G	240GB SATA M.2
UCS-M2-480G	480GB M.2 SATA SSD
UCS-M2480OA1V	480GB M.2 Boot Solidigm S4520 SATA 1X SSD

■ Either the Mini Storage carrier or the Boot-Optimized RAID controller from *Table 45*.

NOTE:

- The UCS-M2-HWRAID boot-optimized RAID controller supports RAID 1 and JBOD mode
- Hot-plug replacement is not supported. The server must be powered off.
- The UCS-MSTOR-M2 mini storage carrier control the M.2 SATA drives with no RAID control.
- The UCS-M2-HWRAID Boot-Optimized RAID controller for hardware RAID across the two internal SATA M.2 drives. The Boot-Optimized RAID controller holds up to 2 matching M.2 SATA drives.

Table 45 Mini Storage Carrier/Boot-Optimized RAID Controller

Product ID (PID)	PID Description
UCS-MSTOR-M2	Mini Storage Carrier for M.2 SATA (holds up to 2 M.2 SATA SSDs)
UCS-M2-HWRAID	Cisco Boot optimized M.2 RAID controller (holds up to 2 M.2 SATA SSDs)

Caveats

- You cannot mix M.2 SATA SSDs
- Either one or two identical M.2 SATA SSDs for the mini-storage carrier or boot-optimized RAID controller. You cannot mix M.2 SATA SSD capacities.

TRUSTED PLATFORM MODULE

Trusted Platform Module (TPM) is a computer chip or microcontroller that can securely store artifacts used to authenticate the platform or server. These artifacts can include passwords, certificates, or encryption keys. A TPM can also be used to store platform measurements that help ensure that the platform remains trustworthy. Authentication (ensuring that the platform can prove that it is what it claims to be) and attestation (a process helping to prove that a platform is trustworthy and has not been breached) are necessary steps to ensure safer computing in all environments.

Table 46 TPM Option

Product ID (PID)	Description
UCSX-TPM2-001	Trusted Platform Module 1.2 for UCS (SPI-based)
UCSX-TPM2-002	Trusted Platform Module 2.0 for UCS servers
UCSX-TPM2-002B	Trusted Platform Module2.0 M5 UCS svr (FIPS 140-2 Compliant)

NOTE:

1. The TPM module used in this system conforms to TPM v1.2 and 2.0, as defined by the Trusted Computing Group (TCG). It is also SPI-based.
2. TPM installation is supported after-factory. However, a TPM installs with a one-way screw and cannot be replaced, upgraded, or moved to another server. If a server with a TPM is returned, the replacement server must be ordered with a new TPM. If there is no existing TPM in the server, you can install TPM 2.0. Refer to the following document for Installation location and instructions: Cisco UCS B200 M5 Server Installation Guide.

Retrofit UCS 5108 chassis and B200 M5 servers

You can retrofit UCS 5108 chassis and B200 M5 servers with spare components.

Table 47 Retrofit UCS 5108 chassis and B200 M5 server spare components

Product ID (PID)	Product Description	End-of-Sale and End-of-Life
UCS-ML-128G4RW=[1]	128GB LRDIMM QRx4 3200 (16Gb)	N/A
UCS-MR-X64G2RW=[1]	64GB RDIMM DRx4 3200 (16Gb	End-of-Sale and End-of-Life Announcement for the Cisco Select UCS Accessories
UCS-M2-240G=	240GB SATA M.2	N/A
UCS-M2-480G=	480GB M.2 SATA SSD	
UCS-M2480OA1V=	480GB M.2 Boot Solidigm S4520 SATA 1X SSD	
UCS-M2-HWRAID=	Cisco Boot optimized M.2 Raid controller	
UCSB-VIC-M84-4P=	Cisco UCS VIC 1480 MEZZ for B-Series	
UCSB-MLOM-40G-04=	Cisco UCS VIC 1440 modular LOM for Blade Servers	End-of-Sale and End-of-Life Announcement for the Ciso Select UCS, UCSX and HCI accessories
UCSB-MLOM-PT-01=	Cisco UCS Port Expander Card (mezz) for VIC	
UCS-IOM-2408=	UCS 2408 I/O Module (8 External 25Gb Ports, 32 Internal 10Gb	

Notes . . .

1. For details on Memory configuration, refer to the **B200 M5 Memory guide**.



NOTE: Please reference the End-of-Sale and End-of-Life announcement frequently to check the availability of the components

TECHNICAL SPECIFICATIONS

Dimensions and Weight

Table 48 UCS B200 M5 Dimensions and Weight

Parameter	Value
Height	1.95 in. (50 mm)
Width	8.00 in.(203 mm)
Depth	24.4 in. (620 mm)
Weight	■ Base server weight = 9.51 lbs (4.31 kg) (no HDDs, no CPUs, no DIMMs, no mezzanine adapters or memory) ■ Minimally configured server weight = 11.29 lbs (5.12 kg) (no HDDs, 1 CPU, 8 DIMMs, VIC 1340 but no additional mezzanine adapter) ■ Fully configured server weight = 16 lbs (7.25 kg) (2 HDDs, 2 CPUs, 24 DIMMs, VIC 1340 and additional mezzanine adapter both populated)

Power Specifications

For configuration-specific power specifications, use the Cisco UCS Power Calculator at:

http://ucspowercalc.cisco.com

NUTANIX SOFTWARE AND NUTANIX PROFESSIONAL SERVICES

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  - *Table 2*, *Nutanix NCI Software License Use case*
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  - *Table 3*.**0, Nutanix Software PID Decoder (WW-XX-YY-ZZ)**
  - *Table 3*.**1, Nutanix Professional Services PID Decoder (WW-XX-YY-ZZ)**
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  - **Table 7.5,** *NCM Intelligent Operations Design Workshop*
  - **Table 7.6,** *NCM Intelligent Operations Deployment*
  - **Table 7.7,** *FastTrack for NCM Self-Service*
  - **Table 7.8,** *FastTrack for NCM Cost Governance*
  - **Table 7.9,** *Nutanix AI GPT Bundles Services*
  - **Table 7.10,** *Nutanix AI Planning Workshop*
  - **Table 7.11,** *Nutanix AI Design Workshop*
  - **Table 7.12,** *Nutanix AI Strategy and Optimization Workshop*
  - **Table 7.13,** *Nutanix AI Deployment*
  - **Table 7.14,** *NKP Design Workshop*
  - **Table 7.15,** *NKP Deployment*
  - **Table 7.16,** *Nutanix Flexible Credits*
- **Nutanix Support:, page 46**
- **Software With Professional Services PID Mapping, page 47**
  - *Table 9.0, Nutanix Software NCI, NCI-C NCP (NCI-PRO), NCP (NCI-ULT), NCP-C (NCIC-PRO), NCP-C (NCIC-ULT) 1 YEAR SUBSCRIPTION with professional services PID Mapping*
  - *Table 9.1, Nutanix Software NCI, NCI-C, NCP (NCI-PRO), NCP (NCI-ULT), NCP-C (NCIC-PRO), NCP-C (NCIC-ULT) 3 YEAR SUBSCRIPTION with professional services PID Mapping*
  - *Table 10,Nutanix Software NCM STR 1 YEAR AND 3 YEAR & ABOVE SUBSCRIPTION with Professional Services PID Mapping*
  - *Table 11, Nutanix Software NCM PRO, NCM ULT, NCP (NCM-PRO), NCP (NCM-ULT) 1 YEAR AND 3 YEAR & ABOVE SUBSCRIPTION with Professional services*

Top Level Nutanix Software And Professional Services PIDs

Table 49 Top Level Nutanix Software And Professional Services PIDs

ATO Product ID (PID)	Description
NTX-SW	Nutanix Software 3Y and above **NOTE:** Please refer to the complete list of **Nutanix Software PIDs and Description, page 5**
NTX-SW-1Y	Nutanix Software 1Y **NOTE:** Please refer to the complete list of **Nutanix Software PIDs and Description, page 5**
NTX-NCI-USE-CASE[1]	Nutanix NCI Software License Use case **NOTE:** Please refer to the complete list of **Nutanix Software PIDs and Description, page 5**
NTX-SW-PS	Nutanix Professional Service **NOTE:** Please refer to the complete list of **Professional Services PIDs and Description, page 29**

Notes . . .

1. A selection of NTX-NCI-USE-CASE from Nutanix Software Category is required when Nutanix Cloud Infrastructure Software License (NCI / NCI-D / NCI-E) is selected. There are a few conditions under which NT-PUBLIC-CLOUD can be used. refer to the **KB article** for more details. Please choose one of them from the *Table 2*, if you select the **NTX-NCI-USE-CASE.**

Table 50 Nutanix NCI Software License Use case

Product ID (PID)	Description
NT-ON-PREM-UCS	Use Case to License Nutanix SW on Certified Cisco UCS HW
NT-PUBLIC-CLOUD	Use Case to License Nutanix SW (NC2) Running in Public Cloud (AWS/Azure)Hide
NT-OTHER	Use Case for all other Nutanix SW that is not covered above

NOTE:

(1) 1 Year Subscription term:

- For Nutanix Cloud Infrastructure (NCI), Nutanix Cloud Infrastructure - Compute Only (NCI-C), Nutanix Cloud Infrastructure - Data (NCI-D) and Nutanix Cloud Manager (NCM) softwares, it requires mandatory attach of Nutanix Professional Services.

(2) 3 Year Subscription term:

- For Nutanix Cloud Infrastructure (NCI), Nutanix Cloud Infrastructure - Compute Only (NCI-C), Nutanix Cloud Infrastructure - Data (NCI-D) and Nutanix Cloud Manager (NCM), only Starter (STR) softwares, it is recommended to attach Nutanix Professional Services during ordering.
- For Nutanix Cloud Manager (NCM) software, only Professional (PRO) and Ultimate (ULT) softwares requires mandatory Nutanix Professional Services.

(3) Nutanix NCI Software License Use case:

- Ratio of cores between cloud and on-prem must be 70/30 or greater, meaning >=30% of cores must be licensed for on-prem usage. Cloud only deals, public cloud marketplace deals, and hybrid cloud deals with other vendor hardware are not allowed.
- Must include mention of hybrid cloud in your Nutanix deal registration.
- Must select the appropriate public cloud use-case SKU when building a CCW configuration.

(4) Any future expansion opportunity does not require mandatory Nutanix Professional Services attach.

(5) Cisco and Nutanix products are each subject to their own terms and conditions, including support timelines and milestones. This includes the Nutanix Cloud Platform software and qualified Cisco UCS hardware platforms sold together as part of the Cisco Compute Hyperconverged with Nutanix solution. Carefully review Nutanix's EoL portal for support timelines by hardware platform. Cisco's UCS hardware support milestones may not align with Nutanix's support milestones. Therefore, it is important to plan your hardware and software refresh cycles based on the earlier of the two dates (hardware support from Cisco and software support from Nutanix). It is your responsibility to check the Nutanix software term length desired against the support time frames for the quoted UCS hardware platform.

Nutanix licenses are transferable to newer generation Cisco UCS platforms subject to Nutanix's end user license agreement. Refer to Nutanix's Support FAQs for details and definitions of Nutanix's End of Life and End of Support Life milestones. Refer to Cisco's EoL policy for details and definitions of Cisco's End of Life and Last Date of Support milestones.

Nutanix Software And Professional Services PID Decoder

Table 51.0 Nutanix Software PID Decoder (WW-XX-YY-ZZ)

Identifier#1 (WW)	Identifier#2 (XX)	Identifier#3 (YY)	Identifier#4 (ZZ)
Nutanix Product Family:	Nutanix Software Type/Category:	License Tiers:	Support Tier:
NT	**NCI**: Nutanix Cloud Infrastructure **NCI-C**: Nutanix Cloud Infrastructure-Compute Only **NCM**: Nutanix Cloud Manager **NCP**: Nutanix Cloud Platform **NCP-C**: Nutanix Cloud Platform-Compute Only **NKP:** Nutanix Kubernetes Platform **NAI**: Nutanix Enterprise AI	**STR**: Starter **PRO**: Professional **ULT**: Ultimate	**PR**: Production **MC**: Mission Critical **AP:** (ASP Production) **AM:** (ASP Mission Critical) **FP**: US Federal Production **FM**: US Federal Mission Critical
NOTE: Note for example "NT-NCI-STR-PR" PID can be decoded as, NT=Nutanix, NCI=Nutanix Cloud Infrastructure, STR=Starter, PR=Production			

Table 51.1 Nutanix Professional Services PID Decoder (WW-XX-YY-ZZ)

Identifier#1 (WW)	Identifier#2 (XX)	Identifier#3 (YY)	Identifier#4 (ZZ)
Nutanix Product Family:	Nutanix Professional Services Offering:	Nutanix Product Tier:	Nutanix Professional Services Option:
NT	**Design** W-DS: NCI Design Workshop W-SSD: NCM Self-Service Design Workshop W-OD: NCM Intelligent Operations Design Workshop W-KD: NKP Design Workshop P-AI - NAI Planning Workshop W-AID - NAI Design Workshop W-AIO - NAI Strategy and Optimization Workshop **Deploy** S-DP: NCI Cluster Deployment or Expansion S-OP: NCM Intelligent Operations Deployment F-SS: FastTrack for NCM Self-Service F-CG: FastTrack for NCM Cost Governance S-KD: NKP Deployment S-AID - NAI Deployment **Migrate** W-MG: Virtual Machine Migration Workshop S-MG-VM: Virtual Machine Migration **Custom** FLEX-CST-CR: Flexible Credits	**STR**: Starter **PRO**: Professional **ULT**: Ultimate	**Design** SD: Standard Documentation **Deploy** AV-PB: Pro AHV Nodes Base AV-PV: Pro AHV Nodes Variable EX-PB: Pro ESX Nodes Base EX-PV: Pro ESX Nodes Variable AV-SB: Starter AHV Nodes Base AV-SV: Starter AHV Nodes Variable EX-SB: Starter ESX Nodes Base EX-SV: Starter ESX Nodes Variable AVB: Starter AHV Nodes Base AVV: Starter AHV Nodes Variable EXB: Starter ESX Nodes Base EXV: Starter ESX Nodes Variable AV-UB: Ultimate AHV Nodes Base AV-UV: Ultimate AHV Nodes Variable EX-UB: Ultimate ESX Nodes Base EX-UV: Ultimate ESX Nodes Variable
NOTE: Note for example "NT-W-DS-STR-SD" PID can be decoded as, NT=Nutanix, W-DS= Design Workshop, STR=Starter, SD= Standard Documentation			

Nutanix Software PIDs and Description

Table 52 Software Options and Metric

Software Option	Software Description	Metric
Nutanix Cloud Infrastructure (NCI)	NCI is a complete software stack to unify your hybrid cloud infrastructure including compute, storage and network, hypervisors, and containers, in public or enterprise clouds	Per Core
Nutanix Cloud Infrastructure - Compute Only (NCI-C)	NCI-C is an enterprise virtualization platform that integrates with qualified storage partners to support demanding mission-critical applications.	Per Core
Nutanix Cloud Infrastructure Data (NCI-D)	Delivers rich data and storage services but does not include Nutanix compute and networking capabilities. No support for AHV	Per Core
Nutanix Cloud Infrastructure Edge (NCI-Edge)	Nutanix Cloud Infrastructure – Edge (NCI-Edge) provides a distributed infrastructure platform for small edge deployments. NCI-Edge provides the same capabilities as NCI, combining compute, storage, and networking resources from a cluster of servers into a single logical pool with integrated resiliency, security, performance, and simplified administration.	Per VM
Nutanix Cloud Manager (NCM)	NCM offers intelligent operations, self service and orchestration, visibility and governance of spend, security and teams	Per Core
Nutanix Cloud Manager Edge (NCM-E)	Provides NCM capabilities for Edge deployments	Per VM
Nutanix Cloud Manager EUC (NCM-U)	Provides NCM capabilities in VDI use cases	Per User
Nutanix Cloud Platform (NCP)	Bundle for NCI and NCM	Per Core
Nutanix Cloud Platform - Compute Only (NCP-C)	Bundle for NCI-C and NCM	Per Core
Nutanix Unified Storage™ (NUS)	Nutanix Unified Storage™ (NUS) is a software-defined data services platform that consolidates the management and protection of siloed block, file, and object storage into a single, unified platform.	Per TIB
Nutanix Data Lens (NDL)	Nutanix Data Lens is a SaaS-based cyberstorage solution offering ransomware resilience and global data visibility for unstructured data on Nutanix Unified Storage (NUS).	Per TIB
End User Computing (EUC)	on-prem VDI and Desktop as a Service (DaaS) use cases	Per User
Nutanix Kubernetes Platform (NKP)	Nutanix Kubernetes Platform (NKP) combines the Nutanix Kubernetes Engine (NKE) features with their acquisition of the D2iQ product family to bring a consolidated runtime, orchestration, and management environment to our cloud native customers.	Per Core/Per VM[1]
Nutanix Enterprise AI (NAI)	Nutanix Enterprise AI is a comprehensive software platform designed to simplify and secure the deployment, management, and scaling of generative AI (GenAI) applications.	Per Core/vCPU and GB[2]

Notes . . .

1. For NKP FS STR/PRO/ULT, the metric is calculated per core, whereas for NKP PRO/ULT, the calculated is measured per VM.
2. For NAI both per core/vCPU and GPU memory (GB) licenses are required.

Table 53 Nutanix Software License Tiers

NCI Starter	NCI Professional	NCI Ultimate
Core set of software functionality **Ideal for:** Small-scale deployments with a limited set of workloads (on-prem only)	Rich data services, resilience and management features **Ideal for:** Running multiple applications or large-scale single workload deployments (on-prem or in public clouds)	Full suite of Nutanix software capabilities to tackle complex infrastructure challenges **Ideal for:** Multi-site deployments and advanced security requirements (on-prem or in public clouds)



NOTE:

- Prism Central will be required for all licensing actions.
- Licenses are portable across Cisco hardware platforms in HCL.

(1) Nutanix Cloud Infrastructure (NCI):

Nutanix Cloud Infrastructure (NCI) converges the entire datacenter stack, including compute, storage, storage networking, and virtualization and is at the core of creating a hyperconverged infrastructure environment. Complex and expensive legacy infrastructure is replaced by NCI, running on industry-standard servers loaded with the latest hardware technologies. This allows enterprises to deploy what you need for the short term, and scale on-demand as infrastructure needs increase over time. Each server, often referred to as a node in the context of HCI, is an x86 platform with direct-attached storage drives. NCI software runs on each node, distributing all operating functions across the cluster for superior performance and resilience, and enabling seamless scalability.



NOTE:

- For more information about Nutanix Cloud Infrastructure (NCI), please visit **https://www.nutanix.com/products/nutanix-cloud-infrastructure**
- For more information about Nutanix Cloud Platform software options, please visit **https://www.nutanix.com/products/cloud-platform/software-options**
- Please note that the Federal Support program is reserved for US Federal accounts. US Federal accounts must select Federal Support Tier for the order to be fulfilled. If a non-Federal account selects a Federal Support program, Nutanix may not fulfill the order. Additionally, Nutanix's Mixed Support Level Guidelines **(https://www.nutanix.com/support-services/product-support/support-policies-and-faqs?show=accordion-4)** requires all software assets within a cluster to have the same support level, else software support will default to the lower option.
- Sellers in the Federal space need to ensure they have the Federal Support SKU's on the quote and order. All orders without the Federal Support SKU's will be rejected by Nutanix.Refer this Knowledge base article for more info: **https://computekb.cisco.com/article/nutanix-support-for-federal-customers.html**
- Authorized Partners of Nutanix can offer Level 1 & Level 2 support for Nutanix Software. for the complete list visit **https://computekb.cisco.com/article/rules-for-ordering-nutanix-partner-support-skus.html**
- The quantity of NCI license must match with total number for processor cores in hardware platforms.

Table 54.0 Nutanix Cloud Infrastructure (NCI)

Product ID (PID)	PID Description
STR - STARTER	
NT-NCI-STR-PR	Subscription, Nutanix Cloud Infrastructure (NCI) Starter Software License & Production Software Support Service for 1 CPU Core
NT-NCI-STR-MC	Subscription, Nutanix Cloud Infrastructure (NCI) Starter Software License & Mission Critical Software Support Service for 1 CPU Core
NT-NCI-STR-AP	Subscription, Nutanix Cloud Infrastructure (NCI) Starter Software License & L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCI-STR-AM	Subscription, Nutanix Cloud Infrastructure (NCI) Starter Software License & L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)

Table 54.0 Nutanix Cloud Infrastructure (NCI)

NT-NCI-STR-FP	Subscription, Nutanix Cloud Infrastructure (NCI) Starter Software License & Federal Production Software Support Service for 1 CPU Core
NT-NCI-STR-FM	Subscription, Nutanix Cloud Infrastructure (NCI) Starter Software License & Federal Mission Critical Software Support Service for 1 CPU Core
PRO - PROFESSIONAL	
NT-NCI-PRO-PR	Subscription, Nutanix Cloud Infrastructure (NCI) Pro Software License & Production Software Support Service for 1 CPU Core
NT-NCI-PRO-MC	Subscription, Nutanix Cloud Infrastructure (NCI) Pro Software License & Mission Critical Software Support Service for 1 CPU Core
NT-NCI-PRO-AP	Subscription, Nutanix Cloud Infrastructure (NCI) Professional Software License & L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCI-PRO-AM	Subscription, Nutanix Cloud Infrastructure (NCI) Professional Software License & L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCI-PRO-FP	Subscription, Nutanix Cloud Infrastructure (NCI) Pro Software License & Federal Production Software Support Service for 1 CPU Core
NT-NCI-PRO-FM	Subscription, Nutanix Cloud Infrastructure (NCI) Pro Software License & Federal Mission Critical Software Support Service for 1 CPU Core
ULT - ULTIMATE	
NT-NCI-ULT-PR	Subscription, Nutanix Cloud Infrastructure (NCI) Ultimate Software License & Production Software Support Service for 1 CPU Core
NT-NCI-ULT-MC	Subscription, Nutanix Cloud Infrastructure (NCI) Ultimate Software License & Mission Critical Software Support Service for 1 CPU Core
NT-NCI-ULT-AP	Subscription, Nutanix Cloud Infrastructure (NCI) Ultimate Software License & L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCI-ULT-AM	Subscription, Nutanix Cloud Infrastructure (NCI) Ultimate Software License & Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCI-ULT-FP	Subscription, Nutanix Cloud Infrastructure (NCI) Ultimate Software License & Federal Production Software Support Service for 1 CPU Core
NT-NCI-ULT-FM	Subscription, Nutanix Cloud Infrastructure (NCI) Ultimate Software License & Federal Mission Critical Software Support Service for 1 CPU Core
ADVANCED REPLICATION	
NT-A-NCI-ADR-PR	Subscription, Nutanix Cloud Infrastructure (NCI) Advanced Replication add-on Software License & Production Software Support Service for 1 CPU Core
NT-A-NCI-ADR-MC	Subscription, Nutanix Cloud Infrastructure (NCI) Advanced Replication add-on Software License & Mission Critical Software Support Service for 1 CPU Core

Table 54.0 Nutanix Cloud Infrastructure (NCI)

NT-A-NCI-ADR-AP	Subscription, Nutanix Cloud Infrastructure (NCI) Advanced Replication add-on Software License & L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-A-NCI-ADR-AM	Subscription, Nutanix Cloud Infrastructure (NCI) Advanced Replication add-on Software License & L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-A-NCI-ADR-FP	Subscription, Nutanix Cloud Infrastructure (NCI) Advanced Replication add-on Software License & Federal Production Software Support Service for 1 CPU Core
NT-A-NCI-ADR-FM	Subscription, Nutanix Cloud Infrastructure (NCI) Advanced Replication add-on Software License & Federal Mission Critical Software Support Service for 1 CPU Core
SECURITY	
NT-A-NCI-SEC-PR	Subscription, Nutanix Cloud Infrastructure (NCI) Security add-on Software License & Production Software Support Service for 1 CPU Core
NT-A-NCI-SEC-MC	Subscription, Nutanix Cloud Infrastructure (NCI) Security add-on Software License & Mission Critical Software Support Service for 1 CPU Core
NT-A-NCI-SEC-AP	Subscription, Nutanix Cloud Infrastructure (NCI) Security add-on Software License & L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-A-NCI-SEC-AM	Subscription, Nutanix Cloud Infrastructure (NCI) Security add-on Software License & L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-A-NCI-SEC-FP	Subscription, Nutanix Cloud Infrastructure (NCI) Security add-on Software License & Federal Production Software Support Service for 1 CPU Core
NT-A-NCI-SEC-FM	Subscription, Nutanix Cloud Infrastructure (NCI) Security add-on Software License & Federal Mission Critical Software Support Service for 1 CPU Core

Table 9.0, Nutanix Software NCI, NCI-C NCP (NCI-PRO), NCP (NCI-ULT), NCP-C (NCIC-PRO), NCP-C (NCIC-ULT) 1 YEAR SUBSCRIPTION with professional services PID Mapping

Table 9.1, Nutanix Software NCI, NCI-C, NCP (NCI-PRO), NCP (NCI-ULT), NCP-C (NCIC-PRO), NCP-C (NCIC-ULT) 3 YEAR SUBSCRIPTION with professional services PID Mapping

(2) Nutanix Cloud Infrastructure - Compute-Only (NCI-C):

Nutanix Cloud Infrastructure - Compute-Only (NCI-C) is an enterprise virtualization platform that converges Nutanix's operational model and automation of NCI with everupure FlashArray to deliver a high-performance and secure solution for demanding data and mission-critical workload. NCI-C provides VM-centric data management delegating snapshots, clones, and related operations to storage platform for efficiency and performance. Multilayer security protects mission-critical environments with micro segmentation, least-privileged access and compliance guardrails supported by storage-level encryption within everupure. This solution is ideally suited to supporting mission-critical applications for customers from highly regulated industries, such as finance, healthcare and government.



NOTE:

- For more information about Nutanix Cloud Infrastructure - Compute-Only (NCI-C), please visit **https://www.nutanix.com/products/nutanix-cloud-infrastructure/compute**
- For more information about Nutanix Cloud Infrastructure capabilities and software options, please visit **https://www.nutanix.com/library/datasheets/nci-c**
- For more information about Nutanix Cloud Platform software options, please visit **https://www.nutanix.com/products/cloud-platform/software-options**
- Please note that the Federal Support program is reserved for US Federal accounts. US Federal accounts must select Federal Support Tier for the order to be fulfilled. If a non-Federal account selects a Federal Support program, Nutanix may not fulfill the order. Additionally, Nutanix's Mixed Support Level Guidelines **(https://www.nutanix.com/support-services/product-support/support-policies-and-faqs?show=accordion-4)** requires all software assets within a cluster to have the same support level, else software support will default to the lower option.
- Sellers in the Federal space need to ensure they have the Federal Support SKU's on the quote and order. All orders without the Federal Support SKU's will be rejected by Nutanix.Refer this Knowledge base article for more info: **https://computekb.cisco.com/article/nutanix-support-for-federal-customers.html**
- Authorized Partners of Nutanix can offer Level 1 & Level 2 support for Nutanix Software. for the complete list visit **https://computekb.cisco.com/article/rules-for-ordering-nutanix-partner-support-skus.html**



WARNING:

- 1,000 cores for Canada, Zone 2 USA: USA Enterprise (East, West, North), USA Federal and USA Healthcare
- 300 cores for the rest of the world. Japan, APAC ex Japan, EMEA, LATAM, Zone 1 USA: US Commercial, US SLED, US Channel Led.
- After this threshold is met, the customer is no longer subject to a minimum core requirement for subsequent orders. The quantity of NCI-C license must match the total number for processor cores in hardware platforms.

Table 54.1 Nutanix Cloud Infrastructure - Compute Only (NCI-C)

Product ID (PID)	PID Description
STR - STARTER	
NT-NCIC-STR-PR	Subscription, Nutanix Cloud Infrastructure - Compute Only (NCI-C) Starter Software License & Production Software Support Service for 1 CPU Core

Table 54.1 Nutanix Cloud Infrastructure - Compute Only (NCI-C)

NT-NCIC-STR-MC	Subscription, Nutanix Cloud Infrastructure - Compute Only (NCI-C) Starter Software License & Mission Critical Software Support Service for 1 CPU Core
NT-NCIC-STR-FP	Subscription, Nutanix Cloud Infrastructure - Compute Only (NCI-C) Starter Software License & Federal Production Software Support Service for 1 CPU Core
NT-NCIC-STR-FM	Subscription, Nutanix Cloud Infrastructure - Compute Only (NCI-C) Starter Software License & Federal Mission Critical Software Support Service for 1 CPU Core
PRO - PROFESSIONAL	
NT-NCIC-PRO-PR	Subscription, Nutanix Cloud Infrastructure - Compute Only (NCI-C) Pro Software License & Production Software Support Service for 1 CPU Core
NT-NCIC-PRO-MC	Subscription, Nutanix Cloud Infrastructure - Compute Only (NCI-C) Pro Software License & Mission Critical Software Support Service for 1 CPU Core
NT-NCIC-PRO-FP	Subscription, Nutanix Cloud Infrastructure - Compute Only (NCI-C) Pro Software License & Federal Production Software Support Service for 1 CPU Core
NT-NCIC-PRO-FM	Subscription, Nutanix Cloud Infrastructure - Compute Only (NCI-C) Pro Software License & Federal Mission Critical Software Support Service for 1 CPU Core
ULT - ULTIMATE	
NT-NCIC-ULT-PR	Subscription, Nutanix Cloud Infrastructure - Compute Only (NCI-C) Ultimate Software License & Production Software Support Service for 1 CPU Core
NT-NCIC-ULT-MC	Subscription, Nutanix Cloud Infrastructure - Compute Only (NCI-C) Ultimate Software License & Mission Critical Software Support Service for 1 CPU Core
NT-NCIC-ULT-FP	Subscription, Nutanix Cloud Infrastructure - Compute Only (NCI-C) Ultimate Software License & Federal Production Software Support Service for 1 CPU Core
NT-NCIC-ULT-FM	Subscription, Nutanix Cloud Infrastructure - Compute Only (NCI-C) Ultimate Software License & Federal Mission Critical Software Support Service for 1 CPU Core
ADVANCED REPLICATION	
NT-A-NCIC-ADR-PR	Subscription, Nutanix Cloud Infrastructure - Compute Only (NCI-C) Advanced Replication Software License & Production Software Support Service for 1 CPU Core
NT-A-NCIC-ADR-MC	Subscription, Nutanix Cloud Infrastructure - Compute Only (NCI-C) Advanced Replication Software License & Mission Critical Software Support Service for 1 CPU Core
NT-A-NCIC-ADR-FP	Subscription, Nutanix Cloud Infrastructure - Compute Only (NCI-C) Advanced Replication Software License & Federal Production Software Support Service for 1 CPU Core
NT-A-NCIC-ADR-FM	Subscription, Nutanix Cloud Infrastructure - Compute Only (NCI-C) Advanced Replication Software License & Federal Mission Critical Software Support Service for 1 CPU Core
SECURITY	

Table 54.1 Nutanix Cloud Infrastructure - Compute Only (NCI-C)

NT-A-NCIC-SEC-PR	Subscription, Nutanix Cloud Infrastructure - Compute Only (NCI-C) Security Software License & Production Software Support Service for 1 CPU Core
NT-A-NCIC-SEC-MC	Subscription, Nutanix Cloud Infrastructure - Compute Only (NCI-C) Security Software License & Mission Critical Software Support Service for 1 CPU Core
NT-A-NCIC-SEC-FP	Subscription, Nutanix Cloud Infrastructure - Compute Only (NCI-C) Security Software License & Federal Production Software Support Service for 1 CPU Core
NT-A-NCIC-SEC-FM	Subscription, Nutanix Cloud Infrastructure - Compute Only (NCI-C) Security Software License & Federal Mission Critical Software Support Service for 1 CPU Core

Table 9.0, Nutanix Software NCI, NCI-C NCP (NCI-PRO), NCP (NCI-ULT), NCP-C (NCIC-PRO), NCP-C (NCIC-ULT) 1 YEAR SUBSCRIPTION with professional services PID Mapping

Table 9.1, Nutanix Software NCI, NCI-C, NCP (NCI-PRO), NCP (NCI-ULT), NCP-C (NCIC-PRO), NCP-C (NCIC-ULT) 3 YEAR SUBSCRIPTION with professional services PID Mapping

(3) Nutanix Cloud Manager (NCM):

Nutanix Cloud Manager (NCM) is a hybrid multi-cloud management platform for building a cloud operating model. NCM provides Intelligent Operations, Self-Service, Cost Governance, and Security natively with the Nutanix Platform or through a SaaS subscription.

- Self-service VMs and Apps are defined via simple blueprints, easily created, and managed via GUI/CLI.
- Management of IT lifecycle includes visibility, optimization, and financial control over multi-cloud deployments.
- Detect, monitor, and remediate security vulnerabilities and compliance near real-time across multiple cloud environment



NOTE:

- For more information Nutanix Cloud Manager (NCM), please visit https://www.nutanix.com/products/cloud-manager
- For more information about Nutanix Cloud Platform software options, please visit https://www.nutanix.com/products/cloud-platform/software-options
- Please note that the Federal Support program is reserved for US Federal accounts. US Federal accounts must select Federal Support Tier for the order to be fulfilled. If a non-Federal account selects a Federal Support program, Nutanix may not fulfill the order. Additionally, Nutanix's Mixed Support Level Guidelines(https://www.nutanix.com/support-services/product-support/support-policies-and-faqs?show=accordion-4) requires all software assets within a cluster to have the same support level, else software support will default to the lower option.
- Sellers in the Federal space need to ensure they have the Federal Support SKU's on the quote and order. All orders without the Federal Support SKU's will be rejected by Nutanix.Refer this Knowledge base article for more info: https://computekb.cisco.com/article/nutanix-support-for-federal-customers.html
- Authorized Partners of Nutanix can offer Level 1 & Level 2 support for Nutanix Software. For the complete list visit https://computekb.cisco.com/article/rules-for-ordering-nutanix-partner-support-skus.html
- The quantity of NCM license must match with total number for processor cores in hardware platforms.

Table 54.2 Nutanix Cloud Manager (NCM)

Product ID (PID)	PID Description
STR - STARTER	
NT-NCM-STR-PR	Subscription, Nutanix Cloud Manager (NCM) Starter Software License & Production Software Support Service for 1 CPU Core
NT-NCM-STR-MC	Subscription, Nutanix Cloud Manager (NCM) Starter Software License & Mission Critical Software Support Service for 1 CPU Core
NT-NCM-STR-AP	Subscription, Nutanix Cloud Manager (NCM) Starter Software License & L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCM-STR-AM	Subscription, Nutanix Cloud Manager (NCM) Starter Software License & L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)

Table 54.2 Nutanix Cloud Manager (NCM)

NT-NCM-STR-FP	Subscription, Nutanix Cloud Manager (NCM) Starter Software License & Federal Production Software Support Service for 1 CPU Core
NT-NCM-STR-FM	Subscription, Nutanix Cloud Manager (NCM) Starter Software License & Federal Mission Critical Software Support Service for 1 CPU Core
PRO - PROFESSIONAL	
NT-NCM-PRO-PR	Subscription, Nutanix Cloud Manager (NCM) Pro Software License & Production Software Support Service for 1 CPU Core
NT-NCM-PRO-MC	Subscription, Nutanix Cloud Manager (NCM) Pro Software License & Mission Critical Software Support Service for 1 CPU Core
NT-NCM-PRO-AP	Subscription, Nutanix Cloud Manager (NCM) Pro Software License & L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCM-PRO-AM	Subscription, Nutanix Cloud Manager (NCM) Pro Software License & L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCM-PRO-FP	Subscription, Nutanix Cloud Manager (NCM) Pro Software License & Federal Production Software Support Service for 1 CPU Core
NT-NCM-PRO-FM	Subscription, Nutanix Cloud Manager (NCM) Pro Software License & Federal Mission Critical Software Support Service for 1 CPU Core
ULT - ULTIMATE	
NT-NCM-ULT-PR	Subscription, Nutanix Cloud Manager (NCM) Ultimate Software License & Production Software Support Service for 1 CPU Core
NT-NCM-ULT-MC	Subscription, Nutanix Cloud Manager (NCM) Ultimate Software License & Mission Critical Software Support Service for 1 CPU Core
NT-NCM-ULT-AP	Subscription, Nutanix Cloud Manager (NCM) Ultimate Software License & L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCM-ULT-AM	Subscription, Nutanix Cloud Manager (NCM) Ultimate Software License & L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCM-ULT-FP	Subscription, Nutanix Cloud Manager (NCM) Ultimate Software License & Federal Production Software Support Service for 1 CPU Core
NT-NCM-ULT-FM	Subscription, Nutanix Cloud Manager (NCM) Ultimate Software License & Federal Mission Critical Software Support Service for 1 CPU Core
COST GOVERNANCE	
NT-NCM-CM-FP	Subscription, NCM Cost Governance as a Service for US Federal including Production Support for 1 VM
NT-NCM-CM-OV-FP	Overage, NCM Cost Governance as a Service for US Federal including Production Support for 1 VM

Table 54.2 Nutanix Cloud Manager (NCM)

NT-NCM-CM-OV-PR	Overage, NCM Cost Governance as a Service including Production Support for 1 VM
NT-NCM-CM-PR	Subscription, NCM Cost Governance as a Service including Production Support for 1 VM
SECURITY CENTRAL	
NT-NCM-SC-FP	Subscription, NCM Security Central as a Service for US Federal including Production Support for 1 VM
NT-NCM-SC-OV-FP	Overage, NCM Security Central as a Service for US Federal including Production Support for 1 VM
NT-NCM-SC-OV-PR	Overage, NCM Security Central as a Service including Production Support for 1 VM
NT-NCM-SC-PR	Subscription, NCM Security Central as a Service including Production Support for 1 VM
SELF SERVICE	
NT-NCM-SS-OV-PR	Overage, NCM Self-Service & Orchestration as a Service including Production Support for 1 VM
NT-NCM-SS-PR	Subscription, NCM Self-Service & Orchestration as a Service including Production Support for 1 VM

Table 10, Nutanix Software NCM STR 1 YEAR AND 3 YEAR & ABOVE SUBSCRIPTION with Professional Services PID Mapping

Table 11, Nutanix Software NCM PRO, NCM ULT, NCP (NCM-PRO), NCP (NCM-ULT) 1 YEAR AND 3 YEAR & ABOVE SUBSCRIPTION with Professional services

(4) Nutanix Cloud Platform (NCP) - Compute

9.1 Nutanix Cloud Platform (NCP):

Nutanix Cloud Infrastructure (NCI) and Nutanix Cloud Manager (NCM) can be purchased together in '**better together**' Nutanix Cloud Platform (NCP) bundles:

Nutanix Cloud Platform (NCP)	Nutanix Cloud Infrastructure (NCI) Included	Nutanix Cloud Manager (NCM) Edition included
NCP Starter	NCI Professional	NCM Professional
NCP Professional	NCI Ultimate	NCM Professional
NCP Ultimate	NCI Ultimate	NCM Ultimate



NOTE:

- For more information on Nutanix Cloud Platform (NCP) bundles, please visit https://www.nutanix.com/products/cloud-platform/software-options
- For more information about Nutanix Cloud Platform software options, please visit https://www.nutanix.com/products/cloud-platform/software-options
- Please note that the Federal Support program is reserved for US Federal accounts. US Federal accounts must select Federal Support Tier for the order to be fulfilled. If a non-Federal account selects a Federal Support program, Nutanix may not fulfill the order. Additionally, Nutanix's Mixed Support Level Guidelines (https://www.nutanix.com/support-services/product-support/support-policies-and-faqs?show=accordion-4) requires all software assets within a cluster to have the same support level, else software support will default to the lower option.
- Sellers in the Federal space need to ensure they have the Federal Support SKU's on the quote and order. All orders without the Federal Support SKU's will be rejected by Nutanix. Refer this Knowledge base article for more info: https://computekb.cisco.com/article/nutanix-support-for-federal-customers.html
- Authorized Partners of Nutanix can offer Level 1 & Level 2 support for Nutanix Software. For the complete list visit https://computekb.cisco.com/article/rules-for-ordering-nutanix-partner-support-skus.html
- **The total number of cores for NCI and NCM should be same as NCP**
- **The support tiers for NCI and NCM should be same as NCP**

9.2 Nutanix Cloud Platform - Compute Only (NCP-C):

Nutanix Cloud Infrastructure (NCI-C) and Nutanix Cloud Manager (NCM) can be purchased together in 'better together' Nutanix Cloud Platform (NCP-C) bundles:

Nutanix Cloud Platform - Compute Only (NCP-C)	Nutanix Cloud Infrastructure - Compute Only (NCI-C) Included	Nutanix Cloud Manager (NCM) Edition included
NCP-C Starter	NCI-C Professional	NCM Professional
NCP-C Professional	NCI-C Ultimate	NCM Professional
NCP-C Ultimate	NCI-C Ultimate	NCM Ultimate

NOTE:

- For more information about Nutanix Cloud Infrastructure- Compute (NCI-C), please visit https://www.nutanix.com/products/nutanix-cloud-infrastructure/compute
- For more information about Nutanix Cloud Infrastructure capabilities and software options, please visit https://www.nutanix.com/library/datasheets/nci-c
- Please note that the Federal Support program is reserved for US Federal accounts. US Federal accounts must select Federal Support Tier for the order to be fulfilled. If a non-Federal account selects a Federal Support program, Nutanix may not fulfill the order. Additionally, Nutanix's Mixed Support Level Guidelines (https://www.nutanix.com/support-services/product-support/support-policies-and-faqs?show=accordion-4) requires all software assets within a cluster to have the same support level, else software support will default to the lower option.
- Sellers in the Federal space need to ensure they have the Federal Support SKU's on the quote and order. All orders without the Federal Support SKU's will be rejected by Nutanix. Refer this Knowledge base article for more info: https://computekb.cisco.com/article/nutanix-support-for-federal-customers.html
- **The total number of cores for NCI-C and NCM should be same as NCP-C**
- **The support tiers for NCI-C and NCM should be same as NCP-C**

WARNING:

- The NCP-C, NCI-C, and NCM license requires a minimum initial purchase of 2,000 cores.
- After this threshold is met, the customer is no longer subject to a minimum core requirement for subsequent orders, but quantity of NCP-C, NCI-C, and NCM license must match with total number for processor cores in hardware platforms.

Table 54.3 Nutanix Cloud Platform (NCP) / Nutanix Cloud Platform - Compute Only (NCP-C)

Product ID (PID)	PID Description
NCP STR - STARTER	
NT-NCP-STR-PR	Subscription, Nutanix Cloud Platform Starter Software License & Production Software Support Service for 1 CPU Core
NT-NCP-STR-MC	Subscription, Nutanix Cloud Platform Starter Software License & Mission Critical Software Support Service for 1 CPU Core
NT-NCP-STR-AP	Subscription, Nutanix Cloud Platform Starter Software License & L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCP-STR-AM	Subscription, Nutanix Cloud Platform Starter Software License & L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCP-STR-FP	Subscription, Nutanix Cloud Platform Starter Software License & Federal Production Software Support Service for 1 CPU Core
NT-NCP-STR-FM	Subscription, Nutanix Cloud Platform Starter Software License & Federal Mission Critical Software Support Service for 1 CPU Core
NCP-C STR - STARTER	
NT-NCP-C-STR-PR	Subscription, Nutanix Cloud Platform - Compute Only (NCP-C) Starter Software License & Production Software Support Service for 1 CPU Core

Table 54.3 Nutanix Cloud Platform (NCP) / Nutanix Cloud Platform - Compute Only (NCP-C)

NT-NCP-C-STR-MC	Subscription, Nutanix Cloud Platform - Compute Only (NCP-C) Starter Software License & Mission Critical Software Support Service for 1 CPU Core
NT-NCP-C-STR-FP	Subscription, Nutanix Cloud Platform - Compute Only (NCP-C) Starter Software License & Federal Production Software Support Service for 1 CPU Core
NT-NCP-C-STR-FM	Subscription, Nutanix Cloud Platform - Compute Only (NCP-C) Starter Software License & Federal Mission Critical Software Support Service for 1 CPU Core
NCP PRO- PROFESSIONAL	
NT-NCP-PRO-PR	Subscription, Nutanix Cloud Platform Pro Software License & Production Software Support Service for 1 CPU Core
NT-NCP-PRO-MC	Subscription, Nutanix Cloud Platform Pro Software License & Mission Critical Software Support Service for 1 CPU Core
NT-NCP-PRO-AP	Subscription, Nutanix Cloud Platform Pro Software License & L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCP-PRO-AM	Subscription, Nutanix Cloud Platform Pro Software License & L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCP-PRO-FP	Subscription, Nutanix Cloud Platform Pro Software License & Federal Production Software Support Service for 1 CPU Core
NT-NCP-PRO-FM	Subscription, Nutanix Cloud Platform Pro Software License & Federal Mission Critical Software Support Service for 1 CPU Core
NCP-C PRO- PROFESSIONAL	
NT-NCP-C-PRO-PR	Subscription, Nutanix Cloud Platform - Compute Only (NCP-C) Pro Software License & Production Software Support Service for 1 CPU Core
NT-NCP-C-PRO-MC	Subscription, Nutanix Cloud Platform - Compute Only (NCP-C) Pro Software License & Mission Critical Software Support Service for 1 CPU Core
NT-NCP-C-PRO-FP	Subscription, Nutanix Cloud Platform - Compute Only (NCP-C) Pro Software License & Federal Production Software Support Service for 1 CPU Core
NT-NCP-C-PRO-FM	Subscription, Nutanix Cloud Platform - Compute Only (NCP-C) Pro Software License & Federal Mission Critical Software Support Service for 1 CPU Core
NCP ULT-ULTIMATE	
NT-NCP-ULT-PR	Subscription, Nutanix Cloud Platform Ultimate Software License & Production Software Support Service for 1 CPU Core
NT-NCP-ULT-MC	Subscription, Nutanix Cloud Platform Ultimate Software License & Mission Critical Software Support Service for 1 CPU Core
NT-NCP-ULT-AP	Subscription, Nutanix Cloud Platform Ultimate Software License & L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)

Table 54.3 Nutanix Cloud Platform (NCP) / Nutanix Cloud Platform - Compute Only (NCP-C)

NT-NCP-ULT-AM	Subscription, Nutanix Cloud Platform Ultimate Software License & L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCP-ULT-FP	Subscription, Nutanix Cloud Platform Ultimate Software License & Federal Production Software Support Service for 1 CPU Core
NT-NCP-ULT-FM	Subscription, Nutanix Cloud Platform Ultimate Software License & Federal Mission Critical Software Support Service for 1 CPU Core
NCP-C ULT-ULTIMATE	
NT-NCP-C-ULT-PR	Subscription, Nutanix Cloud Platform - Compute Only (NCP-C) Ultimate Software License & Production Software Support Service for 1 CPU Core
NT-NCP-C-ULT-MC	Subscription, Nutanix Cloud Platform - Compute Only (NCP-C) Ultimate Software License & Mission Critical Software Support Service for 1 CPU Core
NT-NCP-C-ULT-FP	Subscription, Nutanix Cloud Platform - Compute Only (NCP-C) Ultimate Software License & Federal Production Software Support Service for 1 CPU Core
NT-NCP-C-ULT-FM	Subscription, Nutanix Cloud Platform - Compute Only (NCP-C) Ultimate Software License & Federal Mission Critical Software Support Service for 1 CPU Core
NCI PROFESSIONAL	
NT-NCP-NCI-PRO-PR	Subscription, (included in NCP) Nutanix Cloud Infrastructure (NCI) Pro Software License & Production Software Support Service for 1 CPU Core
NT-NCP-NCI-PRO-MC	Subscription, (included in NCP) Nutanix Cloud Infrastructure (NCI) Pro Software License & Mission Critical Software Support Service for 1 CPU Core
NT-NCP-NCI-PRO-AP	Subscription, (included in NCP) Nutanix Cloud Infrastructure (NCI) Pro Software License & L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCP-NCI-PRO-AM	Subscription, (included in NCP) Nutanix Cloud Infrastructure (NCI) Pro Software License & L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCP-NCI-PRO-FP	Subscription, (included in NCP) Nutanix Cloud Infrastructure (NCI) Pro Software License & Federal Production Software Support Service for 1 CPU Core
NT-NCP-NCI-PRO-FM	Subscription, (included in NCP) Nutanix Cloud Infrastructure (NCI) Pro Software License & Federal Mission Critical Software Support Service for 1 CPU Core
NCI-C PROFESSIONAL	
NT-NCP-NCIC-PO-PR	Subscription, (included in NCP-C) Nutanix Cloud Infrastructure - Compute Only (NCI-C) Pro Software License & Production Software Support Service for 1 CPU Core
NT-NCP-NCIC-PO-MC	Subscription, (included in NCP-C) Nutanix Cloud Infrastructure - Compute Only (NCI-C) Pro Software License & Mission Critical Software Support Service for 1 CPU Core
NT-NCP-NCIC-PO-FP	Subscription, (included in NCP-C) Nutanix Cloud Infrastructure - Compute Only (NCI-C) Pro Software License & Federal/Stateside Production Software Support Service for 1 CPU Core

Table 54.3 Nutanix Cloud Platform (NCP) / Nutanix Cloud Platform - Compute Only (NCP-C)

NT-NCP-NCIC-PO-FM	Subscription, (included in NCP-C) Nutanix Cloud Infrastructure - Compute Only (NCI-C) Pro Software License & Federal/Stateside Mission Critical Software Support Service for 1 CPU Core
NCI ULTIMATE	
NT-NCP-NCI-ULT-PR	Subscription, (included in NCP) Nutanix Cloud Infrastructure (NCI) Ultimate Software License & Production Software Support Service for 1 CPU Core
NT-NCP-NCI-ULT-MC	Subscription, (included in NCP) Nutanix Cloud Infrastructure (NCI) Ultimate Software License & Mission Critical Software Support Service for 1 CPU Core
NT-NCP-NCI-ULT-AP	Subscription, (included in NCP) Nutanix Cloud Infrastructure (NCI) Ultimate Software License & L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCP-NCI-ULT-AM	Subscription, (included in NCP) Nutanix Cloud Infrastructure (NCI) Ultimate Software License & L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCP-NCI-ULT-FP	Subscription, (included in NCP) Nutanix Cloud Infrastructure (NCI) Ultimate Software License & Federal Production Software Support Service for 1 CPU Core
NT-NCP-NCI-ULT-FM	Subscription, (included in NCP) Nutanix Cloud Infrastructure (NCI) Ultimate Software License & Federal Mission Critical Software Support Service for 1 CPU Core
NCI-C ULTIMATE	
NT-NCP-NCIC-UT-PR	Subscription, (included in NCP-C) Nutanix Cloud Infrastructure - Compute Only (NCI-C) Ultimate Software License & Production Software Support Service for 1 CPU Core
NT-NCP-NCIC-UT-MC	Subscription, (included in NCP-C) Nutanix Cloud Infrastructure - Compute Only (NCI-C) Ultimate Software License & Mission Critical Software Support Service for 1 CPU Core
NT-NCP-NCIC-UT-FP	Subscription, (included in NCP-C) Nutanix Cloud Infrastructure - Compute Only (NCI-C) Ultimate Software License & Federal/Stateside Production Software Support Service for 1 CPU Core
NT-NCP-NCIC-UT-FM	Subscription, (included in NCP-C) Nutanix Cloud Infrastructure - Compute Only (NCI-C) Ultimate Software License & Federal/Stateside Mission Critical Software Support Service for 1 CPU Core
NCM PROFESSIONAL	
NT-NCP-NCM-PRO-PR	Subscription, (included in NCP) Nutanix Cloud Manager (NCM) Pro Software License & Production Software Support Service for 1 CPU Core
NT-NCP-NCM-PRO-MC	Subscription, (included in NCP) Nutanix Cloud Manager (NCM) Pro Software License & Mission Critical Software Support Service for 1 CPU Core
NT-NCP-NCM-PRO-AP	Subscription, (included in NCP) Nutanix Cloud Manager (NCM) Pro Software License & L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)

Table 54.3 Nutanix Cloud Platform (NCP) / Nutanix Cloud Platform - Compute Only (NCP-C)

NT-NCP-NCM-PRO-AM	Subscription, (included in NCP) Nutanix Cloud Manager (NCM) Pro Software License & L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCP-NCM-PRO-FP	Subscription, (included in NCP) Nutanix Cloud Manager (NCM) Pro Software License & Federal Production Software Support Service for 1 CPU Core
NT-NCP-NCM-PRO-FM	Subscription, (included in NCP) Nutanix Cloud Manager (NCM) Pro Software License & Federal Mission Critical Software Support Service for 1 CPU Core
NCM ULTIMATE	
NT-NCP-NCM-ULT-PR	Subscription, (included in NCP) Nutanix Cloud Manager (NCM) Ultimate Software License & Production Software Support Service for 1 CPU Core
NT-NCP-NCM-ULT-MC	Subscription, (included in NCP) Nutanix Cloud Manager (NCM) Ultimate Software License & Mission Critical Software Support Service for 1 CPU Core
NT-NCP-NCM-ULT-AP	Subscription, (included in NCP) Nutanix Cloud Manager (NCM) Ultimate Software License & L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCP-NCM-ULT-AM	Subscription, (included in NCP) Nutanix Cloud Manager (NCM) Ultimate Software License & L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NCP-NCM-ULT-FP	Subscription, (included in NCP) Nutanix Cloud Manager (NCM) Ultimate Software License & Federal Production Software Support Service for 1 CPU Core
NT-NCP-NCM-ULT-FM	Subscription, (included in NCP) Nutanix Cloud Manager (NCM) Ultimate Software License & Federal Mission Critical Software Support Service for 1 CPU Core

Table 10, Nutanix Software NCM STR 1 YEAR AND 3 YEAR & ABOVE SUBSCRIPTION with Professional Services PID Mapping

Table 11, Nutanix Software NCM PRO, NCM ULT, NCP (NCM-PRO), NCP (NCM-ULT) 1 YEAR AND 3 YEAR & ABOVE SUBSCRIPTION with Professional services

(5) Nutanix Kubernetes Platform (NKP):

Nutanix Kubernetes Platform (NKP) combines the Nutanix Kubernetes Engine (NKE) features with their acquisition of the D2iQ product family to bring a consolidated runtime, orchestration, and management environment to our cloud native customers. The SKUs have two ordering options:

1. NKP Full Stack (Starter, Pro & Ultimate) - This includes the Complete Nutanix stack, bundling NCI, NDK and NKP. This is core based licensing (for all cores in cluster) and feature/capability inclusions depend on the whether it's starter, Pro or Ultimate. This is suitable for customers who will have Nutanix clusters exclusively for container workloads.

2. NKP (Pro & Ultimate) - NKP Starter is Bundled with NCI Pro and Ultimate . This adds NKP to existing NCI deployments (for AHV, ESXi, AWS EC2 & Azure). The Kubernetes and associated NKP functionality is provided by running master and worker node VMs on NCI. This is licensed on vCPU for the workload VMs that will be deployed. This is suitable for customers who already have Nutanix NCI clusters.



NOTE:

- For more information about Nutanix Kubernetes Platform (NKP), please visit https://www.nutanix.com/products/cloud-platform/software-options#nkp
- For more information about Nutanix Cloud Platform software options, please visit https://www.nutanix.com/products/cloud-platform/software-options
- Please note that the Federal Support program is reserved for US Federal accounts. US Federal accounts must select Federal Support Tier for the order to be fulfilled. If a non-Federal account selects a Federal Support program, Nutanix may not fulfill the order. Additionally, Nutanix's Mixed Support Level Guidelines(https://www.nutanix.com/support-services/product-support/support-policies-and-faqs?show=accordion-4) requires all software assets within a cluster to have the same support level, else software support will default to the lower option.
- Sellers in the Federal space need to ensure they have the Federal Support SKU's on the quote and order. All orders without the Federal Support SKU's will be rejected by Nutanix.Refer this Knowledge base article for more info: https://computekb.cisco.com/article/nutanix-support-for-federal-customers.html
- Authorized Partners of Nutanix can offer Level 1 & Level 2 support for Nutanix Software. For the complete list visit https://computekb.cisco.com/article/rules-for-ordering-nutanix-partner-support-skus.html
- **The quantity of NKP Full Stack (FS) license must match with total number for processor cores in hardware platforms.**

Table 54.4 Nutanix Kubernetes Platform (NKP)

Product ID (PID)	PID Description
FS STR - FULL STACK STARTER	
NT-NKP-FS-STR-PR	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Starter Software License and Production Software Support Service for 1 CPU Core
NT-NKP-FS-STR-MC	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Starter Software License and Mission Critical Software Support Service for 1 CPU Core
NT-NKP-FS-STR-AP	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Starter Software License and L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NKP-FS-STR-AM	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Starter Software License and L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)

Table 54.4 Nutanix Kubernetes Platform (NKP)

NT-NKP-FS-STR-FP	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Starter Software License and Federal Production Software Support Service for 1 CPU Core
NT-NKP-FS-STR-FM	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Starter Software License and Federal Mission Critical Software Support Service for 1 CPU Core
FS PRO - FULL STACK PROFESSIONAL	
NT-NKP-FS-PRO-PR	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Pro Software License and Production Software Support Service for 1 CPU Core
NT-NKP-FS-PRO-MC	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Pro Software License and Mission Critical Software Support Service for 1 CPU Core
NT-NKP-FS-PRO-AP	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Pro Software License and L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NKP-FS-PRO-AM	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Pro Software License and L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NKP-FS-PRO-FP	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Pro Software License and Federal Production Software Support Service for 1 CPU Core
NT-NKP-FS-PRO-FM	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Pro Software License and Federal Mission Critical Software Support Service for 1 CPU Core
FS ULT - FULL STACK ULTIMATE	
NT-NKP-FS-ULT-PR	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Ultimate Software License and Production Software Support Service for 1 CPU Core
NT-NKP-FS-ULT-MC	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Ultimate Software License and Mission Critical Software Support Service for 1 CPU Core
NT-NKP-FS-ULT-AP	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Ultimate Software License and L3 Production Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NKP-FS-ULT-AM	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Ultimate Software License and L3 Mission Critical Software Support Service for 1 CPU Core (Authorized Support Partners provides L1, L2 support)
NT-NKP-FS-ULT-FP	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Ultimate Software License and Federal Production Software Support Service for 1 CPU Core
NT-NKP-FS-ULT-FM	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Ultimate Software License and Federal Mission Critical Software Support Service for 1 CPU Core
PRO - PROFESSIONAL	
NT-NKP-PRO-PR	Subscription, Nutanix Kubernetes Platform (NKP) Pro Software License for NCI or non-Nutanix infrastructure and Production Software Support Service for 1 vCPU (or 1 CPU Core on bare metal)

Table 54.4 Nutanix Kubernetes Platform (NKP)

NT-NKP-PRO-MC	Subscription, Nutanix Kubernetes Platform (NKP) Pro Software License for NCI or non-Nutanix infrastructure and Mission Critical Software Support Service for 1 vCPU (or 1 CPU Core on bare metal)
NT-NKP-PRO-AP	Subscription, Nutanix Kubernetes Platform (NKP) Pro Software License for NCI or non-Nutanix infrastructure and L3 Production Software Support Service for 1 vCPU (or 1 CPU Core on bare metal) (Authorized Support Partners provides L1, L2 support)
NT-NKP-PRO-AM	Subscription, Nutanix Kubernetes Platform (NKP) Pro Software License for NCI or non-Nutanix infrastructure and L3 Mission Critical Software Support Service for 1 vCPU (or 1 CPU Core on bare metal) (Authorized Support Partners provides L1, L2 support)
NT-NKP-PRO-FP	Subscription, Nutanix Kubernetes Platform (NKP) Pro Software License for NCI or non-Nutanix infrastructure and Federal Production Software Support Service for 1 vCPU (or 1 CPU Core on bare metal)
NT-NKP-PRO-FM	Subscription, Nutanix Kubernetes Platform (NKP) Pro Software License for NCI or non-Nutanix infrastructure and Federal Mission Critical Software Support Service for 1 vCPU (or 1 CPU Core on bare metal)
ULT - ULTIMATE	
NT-NKP-ULT-PR	Subscription, Nutanix Kubernetes Platform (NKP) Ultimate Software License for NCI or non-Nutanix infrastructure and Production Software Support Service for 1 vCPU (or 1 CPU Core on bare metal)
NT-NKP-ULT-MC	Subscription, Nutanix Kubernetes Platform (NKP) Ultimate Software License for NCI or non-Nutanix infrastructure and Mission Critical Software Support Service for 1 vCPU (or 1 CPU Core on bare metal)
NT-NKP-ULT-AP	Subscription, Nutanix Kubernetes Platform (NKP) Ultimate Software License for NCI or non-Nutanix infrastructure and L3 Production Software Support Service for 1 vCPU (or 1 CPU Core on bare metal) (Authorized Support Partners provides L1, L2 support)
NT-NKP-ULT-AM	Subscription, Nutanix Kubernetes Platform (NKP) Ultimate Software License for NCI or non-Nutanix infrastructure and L3 Mission Critical Software Support Service for 1 vCPU (or 1 CPU Core on bare metal) (Authorized Support Partners provides L1, L2 support)
NT-NKP-ULT-FP	Subscription, Nutanix Kubernetes Platform (NKP) Ultimate Software License for NCI or non-Nutanix infrastructure and Federal Production Software Support Service for 1 vCPU (or 1 CPU Core on bare metal)
NT-NKP-ULT-FM	Subscription, Nutanix Kubernetes Platform (NKP) Ultimate Software License for NCI or non-Nutanix infrastructure and Federal Mission Critical Software Support Service for 1 vCPU (or 1 CPU Core on bare metal)

Table 9.0, Nutanix Software NCI, NCI-C NCP (NCI-PRO), NCP (NCI-ULT), NCP-C (NCIC-PRO), NCP-C (NCIC-ULT) 1 YEAR SUBSCRIPTION with professional services PID Mapping

Table 9.1, Nutanix Software NCI, NCI-C, NCP (NCI-PRO), NCP (NCI-ULT), NCP-C (NCIC-PRO), NCP-C (NCIC-ULT) 3 YEAR SUBSCRIPTION with professional services PID Mapping

(6) Nutanix Enterprise AI (NAI):

The Nutanix Enterprise AI (NAI) solution offers endpoint APIs for the leading LLM providers, including NVIDIA NIM and Hugging Face, making it easy for organizations to deploy a wide range of GenAI models securely, on-premises or in the public cloud. NAI includes a simple UI, role-based access controls (RBAC), and the capability for untethered operations (dark site or air-gapped deployments) to simplify the operation, monitoring, and adaptation of AI models (LLMs) with enterprise resiliency, Day 2 operations, and compliance.

Nutanix AI Platform has 2 ordering requirements & both need to be ordered:

- CPU (measured in vCPU/Core): This quantity should correspond to the number of physical cores for bare-metal deployments or the vCPUs for virtual deployments.
- GB (memory on GPU): Note that this refers to the total GPU memory, not the physical memory of the nodes in the cluster, and it depends on the GPU selected.



NOTE:

- For more information about Nutanix Enterprise AI (NAI), please visit https://www.nutanix.com/library/datasheets/nutanix-enterprise-ai
- For more information about Nutanix Cloud Platform software options, please visit https://www.nutanix.com/products/cloud-platform/software-options
- Please note that the Federal Support program is reserved for US Federal accounts. US Federal accounts must select Federal Support Tier for the order to be fulfilled. If a non-Federal account selects a Federal Support program, Nutanix may not fulfill the order. Additionally, Nutanix's Mixed Support Level Guidelines(https://www.nutanix.com/support-services/product-support/support-policies-and-faqs?show=accordion-4) requires all software assets within a cluster to have the same support level, else software support will default to the lower option.
- Sellers in the Federal space need to ensure they have the Federal Support SKU's on the quote and order. All orders without the Federal Support SKU's will be rejected by Nutanix.Refer this Knowledge base article for more info: https://computekb.cisco.com/article/nutanix-support-for-federal-customers.html

Table 54.5 Nutanix Enterprise AI (NAI)

Product ID (PID)	PID Description
NAI NKP PROFESSIONAL	
NT-B-AI-G-PO-PR	Subscription, Nutanix Enterprise AI (NAI) GPT-in-a-Box Pro Software License & Production Software Support Service
NT-B-AI-G-PO-MC	Subscription, Nutanix Enterprise AI (NAI) GPT-in-a-Box Pro Software License & Mission Critical Software Support Service
NT-B-AI-G-PO-FP	Subscription, Nutanix Enterprise AI (NAI) GPT-in-a-Box Pro Software License & Federal/Stateside Production Software Support Service
NT-B-AI-G-PO-FM	Subscription, Nutanix Enterprise AI (NAI) GPT-in-a-Box Pro Software License & Federal/Stateside Mission Critical Software Support Service
NAI GPT ULTIMATE	
NT-B-AI-G-UT-PR	Subscription, Nutanix Enterprise AI (NAI) GPT-in-a-Box Ultimate Software License & Production Software Support Service

Table 54.5 Nutanix Enterprise AI (NAI)

NT-B-AI-G-UT-MC	Subscription, Nutanix Enterprise AI (NAI) GPT-in-a-Box Ultimate Software License & Mission Critical Software Support Service
NT-B-AI-G-UT-FP	Subscription, Nutanix Enterprise AI (NAI) GPT-in-a-Box Ultimate Software License & Federal/Stateside Production Software Support Service
NT-B-AI-G-UT-FM	Subscription, Nutanix Enterprise AI (NAI) GPT-in-a-Box Ultimate Software License & Federal/Stateside Mission Critical Software Support Service
NAI NKP PROFESSIONAL	
NT-B-AI-NKP-PO-PR	Subscription, Nutanix Enterprise AI (NAI) Pro and Nutanix Kubernetes Platform (NKP) Pro Software License & Production Software Support Service
NT-B-AI-NKP-PO-MC	Subscription, Nutanix Enterprise AI (NAI) Pro and Nutanix Kubernetes Platform (NKP) Pro Software License & Mission Critical Software Support Service
NT-B-AI-NKP-PO-FP	Subscription, Nutanix Enterprise AI (NAI) Pro and Nutanix Kubernetes Platform (NKP) Pro Software License & Federal/Stateside Production Software Support Service
NT-B-AI-NKP-PO-FM	Subscription, Nutanix Enterprise AI (NAI) Pro and Nutanix Kubernetes Platform (NKP) Pro Software License & Federal/Stateside Mission Critical Software Support Service
NAI NKP ULTIMATE	
NT-B-AI-NKP-UT-PR	Subscription, Nutanix Enterprise AI (NAI) Pro and Nutanix Kubernetes Platform (NKP) Ultimate Software License & Production Software Support Service
NT-B-AI-NKP-UT-MC	Subscription, Nutanix Enterprise AI (NAI) Pro and Nutanix Kubernetes Platform (NKP) Ultimate Software License & Mission Critical Software Support Service
NT-B-AI-NKP-UT-FP	Subscription, Nutanix Enterprise AI (NAI) Pro and Nutanix Kubernetes Platform (NKP) Ultimate Software License & Federal/Stateside Production Software Support Service
NT-B-AI-NKP-UT-FM	Subscription, Nutanix Enterprise AI (NAI) Pro and Nutanix Kubernetes Platform (NKP) Ultimate Software License & Federal/Stateside Mission Critical Software Support Service
NAI PROFESSIONAL GB	
NT-B-AI-PO-GB-PR	Subscription, Nutanix Enterprise AI (NAI) Pro Software License & Production Software Support Service for 1 GB of GPU RAM
NT-B-AI-PO-GB-MC	Subscription, Nutanix Enterprise AI (NAI) Pro Software License & Mission Critical Software Support Service for 1 GB of GPU RAM
NT-B-AI-PO-GB-FP	Subscription, Nutanix Enterprise AI (NAI) Pro Software License & Federal/Stateside Production Software Support Service for 1 GB of GPU RAM
NT-B-AI-PO-GB-FM	Subscription, Nutanix Enterprise AI (NAI) Pro Software License & Federal/Stateside Mission Critical Software Support Service for 1 GB of GPU RAM
NAI PROFESSIONAL vCPU	

Table 54.5 Nutanix Enterprise AI (NAI)

NT-B-AI-PO-C-PR	Subscription, Nutanix Enterprise AI (NAI) Pro Software License & Production Software Support Service for 1 vCPU
NT-B-AI-PO-C-MC	Subscription, Nutanix Enterprise AI (NAI) Pro Software License & Mission Critical Software Support Service for 1 vCPU
NT-B-AI-PO-C-FP	Subscription, Nutanix Enterprise AI (NAI) Pro Software License & Federal/Stateside Production Software Support Service for 1 vCPU
NT-B-AI-PO-C-FM	Subscription, Nutanix Enterprise AI (NAI) Pro Software License & Federal/Stateside Mission Critical Software Support Service for 1 vCPU
NKP FS PROFESSIONAL	
NT-B-NKP-FS-PO-PR	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Pro Software License and Production Software Support Service for 1 physical CPU Core
NT-B-NKP-FS-PO-MC	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Pro Software License and Mission Critical Software Support Service for 1 physical CPU Core
NT-B-NKP-FS-PO-FP	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Pro Software License and Federal/Stateside/Stateside Production Software Support Service for 1 physical CPU Core
NT-B-NKP-FS-PO-FM	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Pro Software License and Federal/Stateside/Stateside Mission Critical Software Support Service for 1 physical CPU Core
NKP FS ULTIMATE	
NT-B-NKP-FS-UT-PR	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Ultimate Software License and Production Software Support Service for 1 physical CPU Core
NT-B-NKP-FS-UT-MC	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Ultimate Software License and Mission Critical Software Support Service for 1 physical CPU Core
NT-B-NKP-FS-UT-FP	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Ultimate Software License and Federal/Stateside/Stateside Production Software Support Service for 1 physical CPU Core
NT-B-NKP-FS-UT-FM	Subscription, Nutanix Kubernetes Platform (NKP) Full Stack Ultimate Software License and Federal/Stateside/Stateside Mission Critical Software Support Service for 1 physical CPU Core
NKP PROFESSIONAL	
NT-B-NKP-PO-PR	Subscription, Nutanix Kubernetes Platform (NKP) Pro Software License & Production Software Support Service for 1 vCPU
NT-B-NKP-PO-MC	Subscription, Nutanix Kubernetes Platform (NKP) Pro Software License & Mission Critical Software Support Service for 1 vCPU
NT-B-NKP-PO-FP	Subscription, Nutanix Kubernetes Platform (NKP) Pro Software License & Federal/Stateside Production Software Support Service for 1 vCPU
NT-B-NKP-PO-FM	Subscription, Nutanix Kubernetes Platform (NKP) Pro Software License & Federal/Stateside Mission Critical Software Support Service for 1 vCPU

Table 54.5 Nutanix Enterprise AI (NAI)

NKP ULTIMATE	
NT-B-NKP-UT-PR	Subscription, Nutanix Kubernetes Platform (NKP) Ultimate Software License & Production Software Support Service for 1 vCPU
NT-B-NKP-UT-MC	Subscription, Nutanix Kubernetes Platform (NKP) Ultimate Software License & Mission Critical Software Support Service for 1 vCPU
NT-B-NKP-UT-FP	Subscription, Nutanix Kubernetes Platform (NKP) Ultimate Software License & Federal/Stateside Production Software Support Service for 1 vCPU
NT-B-NKP-UT-FM	Subscription, Nutanix Kubernetes Platform (NKP) Ultimate Software License & Federal/Stateside Mission Critical Software Support Service for 1 vCPU
NAI PROFESSIONAL GB Standalone	
NT-AI-PRO-GB-PR	Subscription, Nutanix Enterprise AI (NAI) Pro Software License and Production Software Support Service for 1 GB of GPU RAM
NT-AI-PRO-GB-MC	Subscription, Nutanix Enterprise AI (NAI) Pro Software License and Mission Critical Software Support Service for 1 GB of GPU RAM
NT-AI-PRO-GB-FP	Subscription, Nutanix Enterprise AI (NAI) Pro Software License and Federal/Stateside Production Software Support Service for 1 GB of GPU RAM
NT-AI-PRO-GB-FM	Subscription, Nutanix Enterprise AI (NAI) Pro Software License and Federal/Stateside Mission Critical Software Support Service for 1 GB of GPU RAM
NAI PROFESSIONAL vCPU Standalone	
NT-AI-PRO-C-PR	Subscription, Nutanix Enterprise AI (NAI) Pro Software License and Production Software Support Service for 1 vCPU
NT-AI-PRO-C-MC	Subscription, Nutanix Enterprise AI (NAI) Pro Software License and Mission Critical Software Support Service for 1 vCPU
NT-AI-PRO-C-FP	Subscription, Nutanix Enterprise AI (NAI) Pro Software License and Federal/Stateside Production Software Support Service for 1 vCPU
NT-AI-PRO-C-FM	Subscription, Nutanix Enterprise AI (NAI) Pro Software License and Federal/Stateside Mission Critical Software Support Service for 1 vCPU

Professional Services PIDs and Description

(1) NCI Design Workshop:

The Nutanix Cloud Infrastructure (NCI) Design Workshop offers IT teams in-depth and practical guidance to create a comprehensive design for on-premises NCI clusters. It covers various aspects such as scalability, functionality, integration, and operational needs. This workshop is beneficial during the Design stage of a Hybrid Multicloud journey, especially for complex solutions that involve third-party applications and automation.



NOTE:

- For more information on NCI Design workshop, please visit - https://www.nutanix.com/content/dam/nutanix/resources/service-descriptions/sd-nci-design-workshop.pdf
- For more information on Cisco version of Nutanix Professional services, please visit - https://www.nutanix.com/content/dam/nutanix/resources/service-descriptions/professional-services-service-descriptions-cisco.pdf

Table 55.0 NCI Design Workshop

Nutanix Software Product/Edition	Cisco Product PID	Cisco PID Description PS Offer Name - PS Offer Edition - PS Offer Option - Base/Variable	Nutanix PS Edition	Nutanix PS Option
NCI Starter	NT-W-DS-STR	NCI Design Workshop - Starter - Workshop Only	Starter	Workshop Only
NCI Starter	NT-W-DS-STR-SD	NCI Design Workshop - Starter - Standard Doc	Starter	Standard Documentation
NCI Pro	NT-W-DS-PRO	NCI Design Workshop - Pro - Workshop Only	Pro	Workshop Only
NCI Pro	NT-W-DS-PRO-SD	NCI Design Workshop - Pro - Enhanced Doc	Pro	Enhanced Documentation
NCI Ultimate	NT-W-DS-ULT-SD	NCI Design Workshop - Ultimate - Standard Doc	Ultimate	Standard Documentation

Table 9.0, Nutanix Software NCI, NCI-C NCP (NCI-PRO), NCP (NCI-ULT), NCP-C (NCIC-PRO), NCP-C (NCIC-ULT) 1 YEAR SUBSCRIPTION with professional services PID Mapping

Table 9.1, Nutanix Software NCI, NCI-C, NCP (NCI-PRO), NCP (NCI-ULT), NCP-C (NCIC-PRO), NCP-C (NCIC-ULT) 3 YEAR SUBSCRIPTION with professional services PID Mapping

(2) NCI Cluster Deployment or Expansion:

The Nutanix Cloud Infrastructure (NCI) Cluster Deployment or Expansion accelerates the deployment of hybrid cloud infrastructure to support any application and workload. Highly skilled consultants can deploy on-premises NCI clusters or dedicated Nutanix Unified Storage (NUS) clusters. The clusters can be deployed to various supported hardware platforms, regardless of whether it's Nutanix, our OEM partners, or other platform providers. This offer is ideal for the Deploy stage of the Hybrid Multicloud journey.

NOTE:

- For more information on NCI Cluster deployment and expansion workshop, please visit - https://www.nutanix.com/content/dam/nutanix/resources/service-descriptions/sd-nci-cluster-deployment-or-expansion.pdf
- For more information on Cisco version of Nutanix Professional services, please visit - https://www.nutanix.com/content/dam/nutanix/resources/service-descriptions/professional-services-service-descriptions-cisco.pdf

Table 55.1 NCI Cluster Deployment or Expansion

Nutanix Software Product/Edition	Cisco Product PID	Cisco PID Description PS Offer Name - PS Offer Edition - PS Offer Option - Base/Variable	Nutanix PS Edition	Nutanix PS Option
NCI Starter	NT-S-DP-STR-AVB	NCI Cluster Deployment or Expansion - Starter - AHV - Base	Starter	AHV Nodes
NCI Starter	NT-S-DP-STR-AVV	NCI Cluster Deployment or Expansion - Starter - AHV - Var	Starter	AHV Nodes
NCI Starter	NT-S-DP-STR-EXB	NCI Cluster Deployment or Expansion - Starter - ESX - Base	Starter	ESX Nodes
NCI Starter	NT-S-DP-STR-EXV	NCI Cluster Deployment or Expansion - Starter - ESX - Var	Starter	ESX Nodes
NCI Pro	NT-S-DP-PRO-AV-SB	NCI Cluster Deployment or Expansion - Starter - AHV - Base	Starter	AHV Nodes
NCI Pro	NT-S-DP-PRO-AV-SV	NCI Cluster Deployment or Expansion - Starter - AHV - Var	Starter	AHV Nodes
NCI Pro	NT-S-DP-PRO-EX-SV	NCI Cluster Deployment or Expansion - Starter - ESX - Var	Starter	ESX Nodes
NCI Pro	NT-S-DP-PRO-EX-SB	NCI Cluster Deployment or Expansion - Starter - ESX - Base	Starter	ESX Nodes
NCI Pro	NT-S-DP-PRO-AV-PB	NCI Cluster Deployment or Expansion - Pro - AHV - Base	Pro	AHV Nodes
NCI Pro	NT-S-DP-PRO-AV-PV	NCI Cluster Deployment or Expansion - Pro - AHV - Var	Pro	AHV Nodes
NCI Pro	NT-S-DP-PRO-EX-PB	NCI Cluster Deployment or Expansion - Pro - ESX - Base	Pro	ESX Nodes
NCI Pro	NT-S-DP-PRO-EX-PV	NCI Cluster Deployment or Expansion - Pro - ESX - Var	Pro	ESX Nodes

Table 55.1 NCI Cluster Deployment or Expansion

NCI Ultimate	NT-S-DP-ULT-AV-SB	NCI Cluster Deployment or Expansion - Starter - AHV - Base	Starter	AHV Nodes
NCI Ultimate	NT-S-DP-ULT-AV-SV	NCI Cluster Deployment or Expansion - Starter - AHV - Var	Starter	AHV Nodes
NCI Ultimate	NT-S-DP-ULT-EX-SB	NCI Cluster Deployment or Expansion - Starter - ESX - Base	Starter	ESX Nodes
NCI Ultimate	NT-S-DP-ULT-EX-SV	NCI Cluster Deployment or Expansion - Starter - ESX - Var	Starter	ESX Nodes
NCI Ultimate	NT-S-DP-ULT-AV-PB	NCI Cluster Deployment or Expansion - Pro - AHV - Base	Pro	AHV Nodes
NCI Ultimate	NT-S-DP-ULT-AV-PV	NCI Cluster Deployment or Expansion - Pro - AHV - Var	Pro	AHV Nodes
NCI Ultimate	NT-S-DP-ULT-EX-PB	NCI Cluster Deployment or Expansion - Pro - ESX - Base	Pro	ESX Nodes
NCI Ultimate	NT-S-DP-ULT-EX-PV	NCI Cluster Deployment or Expansion - Pro - ESX - Var	Pro	ESX Nodes
NCI Ultimate	NT-S-DP-ULT-AV-UB	NCI Cluster Deployment or Expansion- Ultimate - AHV - Base	Ultimate	AHV Nodes
NCI Ultimate	NT-S-DP-ULT-AV-UV	NCI Cluster Deployment or Expansion- Ultimate - AHV - Var	Ultimate	AHV Nodes
NCI Ultimate	NT-S-DP-ULT-EX-UB	NCI Cluster Deployment or Expansion- Ultimate - ESX - Base	Ultimate	ESX Nodes
NCI Ultimate	NT-S-DP-ULT-EX-UV	NCI Cluster Deployment or Expansion- Ultimate - ESX - Var	Ultimate	ESX Nodes

Table 9.0, Nutanix Software NCI, NCI-C NCP (NCI-PRO), NCP (NCI-ULT), NCP-C (NCIC-PRO), NCP-C (NCIC-ULT) 1 YEAR SUBSCRIPTION with professional services PID Mapping

Table 9.1, Nutanix Software NCI, NCI-C, NCP (NCI-PRO), NCP (NCI-ULT), NCP-C (NCIC-PRO), NCP-C (NCIC-ULT) 3 YEAR SUBSCRIPTION with professional services PID Mapping

(3) Virtual Machine Migration Workshop:

The Virtual Machine Migration Workshop offers IT teams in-depth and practical guidance to create a comprehensive virtual machine migration plan for migrating virtual machines to Nutanix Cloud Infrastructure (NCI). This offer is ideal for the Migrate state of a Hybrid Multicloud journey.

NOTE:

- For more information on Virtual Machine Migration Workshop, please visit - https://www.nutanix.com/content/dam/nutanix/resources/service-descriptions/sd-virtual-machine-migration-workshop.pdf
- For more information on Cisco version of Nutanix Professional services, please visit - https://www.nutanix.com/content/dam/nutanix/resources/service-descriptions/professional-services-service-descriptions-cisco.pdf

Table 55.2 Virtual Machine Migration Workshop

Nutanix Software Product/Edition	Cisco Product PID	Cisco PID Description PS Offer Name - PS Offer Edition - PS Offer Option - Base/Variable	Nutanix PS Edition	Nutanix PS Option
NCI Starter	NT-W-MG-STR-SD	Virtual Machine Migration Workshop - Standard Doc	None	Standard Documentation
NCI Pro	NT-W-MG-PRO-SD	Virtual Machine Migration Workshop - Standard Doc	None	Standard Documentation
NCI Ultimate	NT-W-MG-ULT-SD	Virtual Machine Migration Workshop - Standard Doc	None	Standard Documentation

Table 9.0, Nutanix Software NCI, NCI-C NCP (NCI-PRO), NCP (NCI-ULT), NCP-C (NCIC-PRO), NCP-C (NCIC-ULT) 1 YEAR SUBSCRIPTION with professional services PID Mapping

Table 9.1, Nutanix Software NCI, NCI-C, NCP (NCI-PRO), NCP (NCI-ULT), NCP-C (NCIC-PRO), NCP-C (NCIC-ULT) 3 YEAR SUBSCRIPTION with professional services PID Mapping

(4) Virtual Machine Migration:

Virtual machine (VM) Migration offers IT teams strong domain expertise to migrate virtual machines to Nutanix Cloud Infrastructure (NCI) per the customer-provided migration plan. This offer is ideal for the Migrate stage of a Hybrid Multicloud journey

NOTE:

- For more information on Virtual Machine Migration, please visit - https://www.nutanix.com/content/dam/nutanix/resources/service-descriptions/sd-virtual-machine-migration.pdf
- For more information on Cisco version of Nutanix Professional services, please visit - https://www.nutanix.com/content/dam/nutanix/resources/service-descriptions/professional-services-service-descriptions-cisco.pdf

Table 55.3 Virtual Machine Migration

Nutanix Software Product/Edition	Cisco Product PID	Cisco PID Description PS Offer Name - PS Offer Edition - PS Offer Option - Base/Variable	Nutanix PS Edition	Nutanix PS Option
NCI Starter	NT-S-MG-VM-STR-AVB	Virtual Machine Migration - From AHV - Base	None	From AHV
NCI Starter	NT-S-MG-VM-STR-AVV	Virtual Machine Migration - From AHV - Var	None	From AHV
NCI Starter	NT-S-MG-VM-STR-EXB	Virtual Machine Migration - From ESX - Base	None	From ESX
NCI Starter	NT-S-MG-VM-STR-EXV	Virtual Machine Migration - From ESX - Var	None	From ESX
NCI Pro	NT-S-MG-VM-PRO-AVB	Virtual Machine Migration - From AHV - Base	None	From AHV
NCI Pro	NT-S-MG-VM-PRO-AVV	Virtual Machine Migration - From AHV - Var	None	From AHV
NCI Pro	NT-S-MG-VM-PRO-EXB	Virtual Machine Migration - From ESX - Base	None	From ESX
NCI Pro	NT-S-MG-VM-PRO-EXV	Virtual Machine Migration - From ESX - Var	None	From ESX
NCI Ultimate	NT-S-MG-VM-ULT-AVB	Virtual Machine Migration - From AHV - Base	None	From AHV
NCI Ultimate	NT-S-MG-VM-ULT-AVV	Virtual Machine Migration - From AHV - Var	None	From AHV
NCI Ultimate	NT-S-MG-VM-ULT-EXB	Virtual Machine Migration - From ESX - Base	None	From ESX
NCI Ultimate	NT-S-MG-VM-ULT-EXV	Virtual Machine Migration - From ESX - Var	None	From ESX

Table 9.0, Nutanix Software NCI, NCI-C NCP (NCI-PRO), NCP (NCI-ULT), NCP-C (NCIC-PRO), NCP-C (NCIC-ULT) 1 YEAR SUBSCRIPTION with professional services PID Mapping
Table 9.1, Nutanix Software NCI, NCI-C, NCP (NCI-PRO), NCP (NCI-ULT), NCP-C (NCIC-PRO), NCP-C (NCIC-ULT) 3 YEAR SUBSCRIPTION with professional services PID Mapping

(5) NCM Self-Service Design Workshop:

The Nutanix Cloud Management (NCM) Self-Service Design Workshop offers automation teams in-depth and practical guidance to create a comprehensive design for application-centric infrastructure automation and lifecycle management (LCM) platforms to streamline and accelerate application development. This workshop is beneficial during the Design stage of a Hybrid Multicloud journey.

NOTE:

- For more information on Nutanix Cloud Management (NCM) Self-Service Design Workshop, please visit- https://www.nutanix.com/content/dam/nutanix/resources/datasheets/professional-services-service-descriptions.pdf
- For more information on Cisco version of Nutanix Professional services, please visit - https://www.nutanix.com/content/dam/nutanix/resources/service-descriptions/professional-services-service-descriptions-cisco.pdf

Table 55.4 NCM Self-Service Design Workshop

Nutanix Software Product/Edition	Cisco Product PID	Cisco PID Description PS Offer Name - PS Offer Edition - PS Offer Option - Base/Variable	Nutanix PS Edition	Nutanix PS Option
NCM Pro	NT-W-SSD-PRO-SD-S	NCM Self-Service Design Workshop - Starter - Standard Doc	Starter	Standard Documentation
NCM Pro	NT-W-SSD-PRO-SD-P	NCM Self-Service Design Workshop - Pro - Standard Doc	Pro	Standard Documentation
NCM Ultimate	NT-W-SSD-ULT-SD-S	NCM Self-Service Design Workshop - Starter - Standard Doc	Starter	Standard Documentation
NCM Ultimate	NT-W-SSD-ULT-SD-P	NCM Self-Service Design Workshop - Pro - Standard Doc	Pro	Standard Documentation

Table 10, **Nutanix Software NCM STR 1 YEAR AND 3 YEAR & ABOVE SUBSCRIPTION with Professional Services PID Mapping**

Table 11, Nutanix Software NCM PRO, NCM ULT, NCP (NCM-PRO), NCP (NCM-ULT) 1 YEAR AND 3 YEAR & ABOVE SUBSCRIPTION with Professional services

(6) NCM Intelligent Operations Design:

The Nutanix Cloud Management (NCM) Intelligent Operations Design Workshop offers IT teams in-depth and practical guidance to create a comprehensive design for Nutanix X-Play automation and playbooks to automate common tasks.



NOTE:

- For more information on NCM Intelligent Operations Design Workshop, please visit - https://www.nutanix.com/content/dam/nutanix/resources/service-descriptions/sd-ncm-intelligent-operations-design.pdf
- For more information on Cisco version of Nutanix Professional services, please visit - https://www.nutanix.com/content/dam/nutanix/resources/service-descriptions/professional-services-service-descriptions-cisco.pdf

Table 55.5 NCM Intelligent Operations Design Workshop

Nutanix Software Product/Edition	Cisco Product PID	Cisco PID Description PS Offer Name - PS Offer Edition - PS Offer Option - Base/Variable	Nutanix PS Edition	Nutanix PS Option
NCM Starter	NT-W-OD-STR-SD	NCM Intelligent Operations Design Workshop - Standard Doc	None	Standard Documentation
NCM Pro	NT-W-OD-PRO-SD	NCM Intelligent Operations Design Workshop - Standard Doc	None	Standard Documentation
NCM Ultimate	NT-W-OD-ULT-SD	NCM Intelligent Operations Design Workshop - Standard Doc	None	Standard Documentation

Table 10, **Nutanix Software NCM STR 1 YEAR AND 3 YEAR & ABOVE SUBSCRIPTION with Professional Services PID Mapping**

Table 11, Nutanix Software NCM PRO, NCM ULT, NCP (NCM-PRO), NCP (NCM-ULT) 1 YEAR AND 3 YEAR & ABOVE SUBSCRIPTION with Professional services

(7) NCM Intelligent Operations Deployment:

The Nutanix Cloud Management (NCM) Intelligent Operations Deployment accelerates the deployment of Nutanix X-Play automation and playbooks to automate common tasks with in-depth expertise from highly skilled consultants.



NOTE:

- For more information on NCM Intelligent Operations Deployment Workshop, please visit - https://www.nutanix.com/content/dam/nutanix/resources/service-descriptions/sd-ncm-intelligent-operations-deployment.pdf
- For more information on Cisco version of Nutanix Professional services, please visit - https://www.nutanix.com/content/dam/nutanix/resources/service-descriptions/professional-services-service-descriptions-cisco.pdf

Table 55.6 NCM Intelligent Operations Deployment

Nutanix Software Product/Edition	Cisco Product PID	Cisco PID Description PS Offer Name - PS Offer Edition - PS Offer Option - Base/Variable	Nutanix PS Edition	Nutanix PS Option
NCM Starter	NT-S-OP-STR	NCM Intelligent Operations Deployment	None	None
NCM Pro	NT-S-OP-PRO	NCM Intelligent Operations Deployment	None	None
NCM Ultimate	NT-S-OP-ULT	NCM Intelligent Operations Deployment	None	None

Table 10, **Nutanix Software NCM STR 1 YEAR AND 3 YEAR & ABOVE SUBSCRIPTION with Professional Services PID Mapping**

Table 11, Nutanix Software NCM PRO, NCM ULT, NCP (NCM-PRO), NCP (NCM-ULT) 1 YEAR AND 3 YEAR & ABOVE SUBSCRIPTION with Professional services

(8) FastTrack for NCM Self-Service:

FastTrack for Nutanix Cloud Manager (NCM) Self-Service accelerates the deployment and configuration of NCM Self-Service, which streamlines how teams manage, deploy, and scale applications across hybrid clouds with self-service, automation, and centralized role-based governance, with expertise from highly skilled automation consultants.



NOTE:

- For more information on Fast Track for NCM Self-Service, please visit - https://www.nutanix.com/content/dam/nutanix/resources/service-descriptions/sd-ncm-intelligent-operations-deployment.pdf
- For more information on Cisco version of Nutanix Professional services, please visit - https://www.nutanix.com/content/dam/nutanix/resources/service-descriptions/professional-services-service-descriptions-cisco.pdf

Table 55.7 FastTrack for NCM Self-Service

Nutanix Software Product/Edition	Cisco Product PID	Cisco PID Description PS Offer Name - PS Offer Edition - PS Offer Option - Base/Variable	Nutanix PS Edition	Nutanix PS Option
NCM Pro	NT-F-PRO-SS	FastTrack for NCM Self-Service	None	None
NCM Ultimate	NT-F-ULT-SS	FastTrack for NCM Self-Service	None	None

Table 10, **Nutanix Software NCM STR 1 YEAR AND 3 YEAR & ABOVE SUBSCRIPTION with Professional Services PID Mapping**

Table 11, Nutanix Software NCM PRO, NCM ULT, NCP (NCM-PRO), NCP (NCM-ULT) 1 YEAR AND 3 YEAR & ABOVE SUBSCRIPTION with Professional services

(9) FastTrack for NCM Cost Governance:

The FastTrack for Nutanix Cloud Management (NCM) Cost Governance accelerates the onboarding of deep visibility and rich analytics detailing cloud consumption patterns along with one-click cost optimization across cloud environments with expertise from highly skilled consultants. IT teams can choose to onboard on-premises Nutanix Cloud Infrastructure (NCI) clusters or a public cloud platform.

NOTE:

- For more information on Fast Track for NCM Cost Governance, please visit - https://www.nutanix.com/content/dam/nutanix/resources/service-descriptions/sd-ncm-intelligent-operations-deployment.pdf
- For more information on Cisco version of Nutanix Professional services, please visit - https://www.nutanix.com/content/dam/nutanix/resources/service-descriptions/professional-services-service-descriptions-cisco.pdf

Table 55.8 FastTrack for NCM Cost Governance

Nutanix Software Product/Edition	Cisco Product PID	Cisco PID Description PS Offer Name - PS Offer Edition - PS Offer Option - Base/Variable	Nutanix PS Edition	Nutanix PS Option
NCM Pro	NT-F-PRO-CG	FastTrack for NCM Cost Governance	None	None
NCM Ultimate	NT-F-ULT-CG	FastTrack for NCM Cost Governance	None	None

Table 10, Nutanix Software NCM STR 1 YEAR AND 3 YEAR & ABOVE SUBSCRIPTION with Professional Services PID Mapping

Table 11, Nutanix Software NCM PRO, NCM ULT, NCP (NCM-PRO), NCP (NCM-ULT) 1 YEAR AND 3 YEAR & ABOVE SUBSCRIPTION with Professional services

(10) Nutanix AI GPT Bundles Services:

The Nutanix Enterprise AI (NAI) generative pretrained transformer (GPT) Bundle offers a streamlined, fullstack solution for orchestrating AI/ML workloads with Nutanix Enterprise AI GPT-in-a-Box. Purpose-built for

AI/ML teams, this offering simplifies the deployment and management of large language models (LLMs) in a secure, scalable environment.

NAI GPT-in-a-Box integrates the following core components:

- Nutanix Enterprise AI (NAI) – Optimized for AI/ML model orchestration and performance
- Nutanix Cloud Infrastructure (NCI) – Delivers a resilient, high-performance foundation
- Nutanix Unified Storage (NUS) – Supports high-throughput, scalable data storage
- Nutanix Kubernetes Platform (NKP) – Enables containerized deployment and lifecycle management of LLMs

Covering the key stages of the AI journey—Plan, Design, Deploy, and Optimize—the NAI GPT Bundle empowers teams to reduce complexity, accelerate time-to-value, and confidently build a future-ready AI infrastructure.

NOTE:

- For more information on Nutanix AI GPT Bundles Services, please visit - https://www.nutanix.com/content/dam/nutanix/en/resources/service-descriptions/sd-nai-gpt-deployment.pdf
- For more information on Cisco version of Nutanix Professional services, please visit - https://www.nutanix.com/content/dam/nutanix/resources/service-descriptions/professional-services-service-descriptions-cisco.pdf

Table 55.9 Nutanix AI GPT Bundles Services

Nutanix Software Product/Edition	Cisco Product PID	Cisco PID Description PS Offer Name - PS Offer Edition - PS Offer Option - Base/Variable	Nutanix PS Edition	Nutanix PS Option
NAI GPT PRO	NT-B-AIGPT-PRO-SDB	NAI GPT Pro Bundle - Std Docs - Base (QTY = Use Case)	None	None
NAI GPT PRO	NT-B-AIGPT-PRO-SDV	NAI GPT Pro Bundle - Std Docs - Variable (QTY= Node)	None	None
NAI GPT ULT	NT-B-AIGPT-ULT-SDB	NAI GPT Ult Bundle - Std Docs - Base (QTY = Use Case)	None	None
NAI GPT ULT	NT-B-AIGPT-ULT-SDV	NAI GPT Ult Bundle - Std Docs - Variable (QTY = Node)	None	None

(11) Nutanix AI Planning Workshop:

The Nutanix Artificial Intelligence / Machine Learning (AI/ML) Planning provides IT teams with comprehensive, hands-on guidance for planning and implementing infrastructure for AI/ML workloads using the Generative Pre-trained Transformer (GPT) model on Nutanix Cloud Infrastructure (NCI) clusters and various cloud providers. This engagement is beneficial during the Planning stage of the AI/ML solution journey.

NOTE:

- For more information on Nutanix AI Planning Workshop, please visit - https://www.nutanix.com/content/dam/nutanix/en/resources/service-descriptions/sd-ai-ml-planning.pdf
- For more information on Cisco version of Nutanix Professional services, please visit - https://www.nutanix.com/content/dam/nutanix/resources/service-descriptions/professional-services-service-descriptions-cisco.pdf

Table 55.10 Nutanix AI Planning Workshop

Nutanix Software Product/Edition	Cisco Product PID	Cisco PID Description PS Offer Name - PS Offer Edition - PS Offer Option - Base/Variable	Nutanix PS Edition	Nutanix PS Option
	NT-P-AI	AI/ML Planning Workshop (Qty=Use Case)	None	None

(12) Nutanix AI Design Workshop:

The Artificial Intelligence/Machine Learning (AI/ML) Design provides a focused design service to ensure readiness for deploying AI workloads based on a Generative Pre-trained Transformer (GPT). Designed as a strategic step in your AI/ML journey, this engagement helps organizations plan and validate architecture for inference use cases, ensuring interoperability, security, and scalability for future growth.

This engagement focuses on:

- Capturing solution requirements, constraints, assumptions, and key decisions
- Designing AI workload architecture on NCI, including GPU sizing and configuration
- Validating integration with identity services (AD/LDAP), DNS, and data governance policies
- Planning for security measures such as encryption, SSL certificates, and syslog
- Aligning design with Nutanix recommended practices for performance and operational readiness

This service is especially valuable for organizations deploying AI/ML workloads on Cisco UCS platforms, ensuring optimized design for inference use cases and future scalability.



NOTE:

- For more information on Nutanix AI Design Workshop, please visit - https://www.nutanix.com/content/dam/nutanix/en/resources/service-descriptions/sd-ai-ml-design.pdf
- For more information on Cisco version of Nutanix Professional services, please visit - https://www.nutanix.com/content/dam/nutanix/resources/service-descriptions/professional-services-service-descriptions-cisco.pdf

Table 55.11 Nutanix AI Design Workshop

Nutanix Software Product/Edition	Cisco Product PID	Cisco PID Description PS Offer Name - PS Offer Edition - PS Offer Option - Base/Variable	Nutanix PS Edition	Nutanix PS Option
	NT-W-AID	AI/ML Design Workshop (Qty=Use Case)	None	None

(13) Nutanix AI Strategy and Optimization Workshop:

The artificial intelligence/ machine learning (AI/ML) Strategy and Optimization Series is designed to help organizations harness the full potential of their AI initiatives. Delivered as a monthly engagement, this service ensures that businesses remain at the forefront of AI/ML innovation by aligning their AI/ML solutions running on Nutanix with evolving market demands and technological advancements. With expert guidance from seasoned Nutanix consultants, organizations gain the insights needed to optimize performance, uncover new opportunities, and scale their AI/ML initiatives strategically. This design session is beneficial during the Optimize stage of the AI/ML solution journey..



NOTE:

- For more information on Nutanix AI Strategy and Optimization Workshop, please visit - https://www.nutanix.com/content/dam/nutanix/en/resources/service-descriptions/sd-ai-ml-strategy-and-optimization-series.pdf
- For more information on Cisco version of Nutanix Professional services, please visit - https://www.nutanix.com/content/dam/nutanix/resources/service-descriptions/professional-services-service-descriptions-cisco.pdf

Table 55.12 Nutanix AI Strategy and Optimization Workshop

Nutanix Software Product/Edition	Cisco Product PID	Cisco PID Description PS Offer Name - PS Offer Edition - PS Offer Option - Base/Variable	Nutanix PS Edition	Nutanix PS Option
	NT-W-AIO	AL/ML Strategy and Optimization Workshop (Qty=Series)	None	None

(14) Nutanix AI Deployment:

The Nutanix Enterprise Artificial Intelligence (NAI) Deployment service accelerates the deployment of a comprehensive inference endpoint management product designed to streamline and optimize your AI model orchestration experience. NAI allows you to select, deploy, and manage large language models (LLMs) on a Kubernetes cluster. This offer is ideal for the Deploy stage of the Nutanix Enterprise AI solution journey.



NOTE:

- For more information on Nutanix AI Deployment, please visit - https://www.nutanix.com/content/dam/nutanix/resources/service-descriptions/sd-ncm-intelligent-operations-deployment.pdf
- For more information on Cisco version of Nutanix Professional services, please visit - https://www.nutanix.com/content/dam/nutanix/resources/service-descriptions/professional-services-service-descriptions-cisco.pdf

Table 55.13 Nutanix AI Deployment

Nutanix Software Product/Edition	Cisco Product PID	Cisco PID Description PS Offer Name - PS Offer Edition - PS Offer Option - Base/Variable	Nutanix PS Edition	Nutanix PS Option
	NT-S-AID	NAI Deployment (Qty=Cluster)	None	None

(15) NKP Design Workshop:

The NKP (Nutanix Kubernetes Platform) Design Workshop is a professional services offering that provides IT teams with in-depth and practical guidance to create a comprehensive design for on-premises Nutanix Cloud Infrastructure (NCI) clusters. This workshop covers various aspects such as scalability, functionality, integration, and operational needs. It is particularly beneficial during the Design stage of a Hybrid Multicloud journey, especially for complex solutions involving third-party applications and automation.

NOTE:

- For more information on NKP Design Workshop, please visit - https://www.nutanix.com/viewer/content/dam/nutanix/en/resources/service-descriptions/sd-nkp-design-workshop.pdf
- For more information on Cisco version of Nutanix Professional services, please visit - https://www.nutanix.com/content/dam/nutanix/resources/service-descriptions/professional-services-service-descriptions-cisco.pdf

Table 55.14 NKP Design Workshop

Nutanix Software Product/Edition	Cisco Product PID	Cisco PID Description PS Offer Name - PS Offer Edition - PS Offer Option - Base/Variable	Nutanix PS Edition	Nutanix PS Option
NKP Starter	NT-W-KD-STR-SD	NKP Design Workshop - Essential - Std Doc (Qty=Provider)	None	Standard Documentation
NKP Pro	NT-W-KD-PRO-SD	NKP Design Workshop - Advantage - Std Doc (Qty=Provider)	None	Standard Documentation
NKP Ultimate	NT-W-KD-ULT-SD	NKP Design Workshop - Enterprise - Std Doc (Qty=Pair of Sites)	None	Standard Documentation

Table 10, **Nutanix Software NCM STR 1 YEAR AND 3 YEAR & ABOVE SUBSCRIPTION with Professional Services PID Mapping**

Table 11, Nutanix Software NCM PRO, NCM ULT, NCP (NCM-PRO), NCP (NCM-ULT) 1 YEAR AND 3 YEAR & ABOVE SUBSCRIPTION with Professional services

(16) NKP Deployment:

The Nutanix Kubernetes Platform (NKP) Deployment on Cisco Compute Hyperconverged infrastructure involves several key steps and components to automate and simplify Kubernetes cluster management.



NOTE:

- For more information on NCM Intelligent NKP Deployment, please visit - https://www.nutanix.com/viewer/content/dam/nutanix/en/resources/service-descriptions/sd-nkp-deployment.pdf
- For more information on Cisco version of Nutanix Professional services, please visit - https://www.nutanix.com/content/dam/nutanix/resources/service-descriptions/professional-services-service-descriptions-cisco.pdf

Table 55.15 NKP Deployment

Nutanix Software Product/Edition	Cisco Product PID	Cisco PID Description PS Offer Name - PS Offer Edition - PS Offer Option - Base/Variable	Nutanix PS Edition	Nutanix PS Option
NKP Starter	NT-S-KD-STR	NKP Deployment - Ess ential (Qty=Cluster)	None	None
NKP Pro	NT-S-KD-PRO	NKP Deployment - Advantage (Qty=Provider)	None	None
NKP Ultimate	NT-S-KD-ULT	NKP Deployment - Enterprise (Qty=Provider)	None	None

Table 10, **Nutanix Software NCM STR 1 YEAR AND 3 YEAR & ABOVE SUBSCRIPTION with Professional Services PID Mapping**

Table 11, Nutanix Software NCM PRO, NCM ULT, NCP (NCM-PRO), NCP (NCM-ULT) 1 YEAR AND 3 YEAR & ABOVE SUBSCRIPTION with Professional services

(17) Nutanix Services Flexible Credits:

Nutanix Flex Credits provide a credits program for purchasing Nutanix Professional Services. This program provides the flexibility to utilize your budget cycles to pre-buy credits for future use of Nutanix Professional Services and training via redemption of credits. Within the terms of validity of your Flex Credits, use the credits for the portfolio of Nutanix Professional Services including Consulting, Resident, Technical Account Manager, and Education.



NOTE:

- For more information on Nutanix Services Flexible Credits, please visit - https://www.nutanix.com/content/dam/nutanix/resources/service-descriptions/sd-ncm-intelligent-operations-deployment.pdf
- For more information on Cisco version of Nutanix Professional services, please visit - https://www.nutanix.com/content/dam/nutanix/resources/service-descriptions/professional-services-service-descriptions-cisco.pdf

Table 55.16 Nutanix Flexible Credits

Nutanix Software Product/Edition	Cisco Product PID	Cisco PID Description PS Offer Name - PS Offer Edition - PS Offer Option - Base/Variable	Nutanix PS Edition	Nutanix PS Option
All	NT-FLEX-CST-CR	Nutanix Services Flexible Credits (1 QTY = 100 Credits)	None	None

Table 10, **Nutanix Software NCM STR 1 YEAR AND 3 YEAR & ABOVE SUBSCRIPTION with Professional Services PID Mapping**

Table 11, Nutanix Software NCM PRO, NCM ULT, NCP (NCM-PRO), NCP (NCM-ULT) 1 YEAR AND 3 YEAR & ABOVE SUBSCRIPTION with Professional services

Nutanix Support:

Table 56 Nutanix Support

Product ID (PID)	PID Description
Nutanix Support	
SVS-NT-SUP	Entitlement ONLY for Nutanix Cloud Infrastructure SW

Software With Professional Services PID Mapping

NOTE: Recommended to select the matching/higher level of service options for the subscribed software. For example: If ULT (Ultimate) software is selected, recommended to choose the ULT services from the below columns. However, it is allowed to select the lower version of the services.

Table 57.0 Nutanix Software NCI, NCI-C NCP (NCI-PRO), NCP (NCI-ULT), NCP-C (NCIC-PRO), NCP-C (NCIC-ULT) 1 YEAR SUBSCRIPTION with professional services PID Mapping

Software PIDs	Mandatory Professional Services PIDs	
	NCI Design Workshop (select one service)	NCI Cluster Deployment or Expansion (select a Pair of service)
STR: NCI NT-NCI-STR-PR NT-NCI-STR-MC NT-NCI-STR-AP NT-NCI-STR-AM NT-NCI-STR-FP NT-NCI-STR-FM NCI -C NT-NCIC-STR-PR NT-NCIC-STR-MC NT-NCIC-STR-FP NT-NCIC-STR-FM	STR: NT-W-DS-STR NT-W-DS-STR-SD PRO: NT-W-DS-PRO NT-W-DS-PRO-SD ULT: NT-W-DS-ULT-SD	STR: NT-S-DP-STR-AVB **and** NT-S-DP-STR-AVV **or** NT-S-DP-STR-EXB **and** N T-S-DP-STR-EXV PRO: NT-S-DP-PRO-AV-SB **and** NT-S-DP-PRO-AV-SV **or** NT-S-DP-PRO-EX-SB **and** NT-S-DP-PRO-EX-SV **or** NT-S-DP-PRO-AV-PB and NT-S-DP-PRO-AV-PV **or** NT-S-DP-PRO-EX-PB and NT-S-DP-PRO-EX-PV ULT: NT-S-DP-ULT-AV-SB **and** NT-S-DP-ULT-AV-SV **or** NT-S-DP-ULT-EX-SB **and** NT-S-DP-ULT-EX-SV **or** NT-S-DP-ULT-AV-PB **and** NT-S-DP-ULT-AV-PV **or** NT-S-DP-ULT-EX-PB **and** NT-S-DP-ULT-EX-PV **or** NT-S-DP-ULT-AV-UB **and** NT-S-DP-ULT-AV-UV **or** NT-S-DP-ULT-EX-UB **and** NT-S-DP-ULT-EX-UV

Table 57.0 Nutanix Software NCI, NCI-C NCP (NCI-PRO), NCP (NCI-ULT), NCP-C (NCIC-PRO), NCP-C (NCIC-ULT) 1 YEAR SUBSCRIPTION with professional services PID Mapping

PRO: **NCI** NT-NCI-PRO-PR NT-NCI-PRO-MC NT-NCI-PRO-AP NT-NCI-PRO-AM NT-NCI-PRO-FP NT-NCI-PRO-FM **NCI -C** NT-NCIC-PRO-PR NT-NCIC-PRO-MC NT-NCIC-PRO-FP NT-NCIC-PRO-FM **NCP (NCI-PRO)** NT-NCP-NCI-PRO-PR NT-NCP-NCI-PRO-MC NT-NCP-NCI-PRO-AP NT-NCP-NCI-PRO-AM NT-NCP-NCI-PRO-FP NT-NCP-NCI-PRO-FM **NCP - C (NCIC-PRO)** NT-NCP-NCIC-PO-PR NT-NCP-NCIC-PO-MC NT-NCP-NCIC-PO-FP NT-NCP-NCIC-PO-FM		

Table 57.0 Nutanix Software NCI, NCI-C NCP (NCI-PRO), NCP (NCI-ULT), NCP-C (NCIC-PRO), NCP-C (NCIC-ULT) 1 YEAR SUBSCRIPTION with professional services PID Mapping

ULT: **NCI** NT-NCI-ULT-PR NT-NCI-ULT-MC NT-NCI-ULT-AP NT-NCI-ULT-AM NT-NCI-ULT-FP NT-NCI-ULT-FM **NCI -C** NT-NCIC-ULT-PR NT-NCIC-ULT-MC NT-NCIC-ULT-FP NT-NCIC-ULT-FM **NCP (NCI-ULT)** NT-NCP-NCI-ULT-PR NT-NCP-NCI-ULT-MC NT-NCP-NCI-ULT-AP NT-NCP-NCI-ULT-AM NT-NCP-NCI-ULT-FP NT-NCP-NCI-ULT-FM **NCP - C (NCIC-ULT)** NT-NCP-NCIC-UT-PR NT-NCP-NCIC-UT-MC NT-NCP-NCIC-UT-FP NT-NCP-NCIC-UT-FM		

NOTE: Recommended to select the matching/higher level of service options for the subscribed software. For example: If ULT (Ultimate) software is selected, recommended to choose the ULT services from the below columns. However, it is allowed to select the lower version of the services.

Table 57.1 Nutanix Software NCI, NCI-C, NCP (NCI-PRO), NCP (NCI-ULT), NCP-C (NCIC-PRO), NCP-C (NCIC-ULT) 3 YEAR SUBSCRIPTION with professional services PID Mapping

Software PIDs	Mandatory Professional Services PIDs	
	NCI Design Workshop (select one service)	NCI Cluster Deployment or Expansion (select a Pair of service)
STR: **NCI** NT-NCI-STR-PR NT-NCI-STR-MC NT-NCI-STR-AP NT-NCI-STR-AM NT-NCI-STR-FP NT-NCI-STR-FM **NCI -C** NT-NCIC-STR-PR NT-NCIC-STR-MC NT-NCIC-STR-FP NT-NCIC-STR-FM	**STR:** NT-W-DS-STR NT-W-DS-STR-SD **PRO:** NT-W-DS-PRO NT-W-DS-PRO-SD **ULT:** NT-W-DS-ULT-SD	**STR:** NT-S-DP-STR-AVB **and** NT-S-DP-STR-AVV **or** NT-S-DP-STR-EXB **and** N T-S-DP-STR-EXV **PRO:** NT-S-DP-PRO-AV-SB **and** NT-S-DP-PRO-AV-SV **or** NT-S-DP-PRO-EX-SB **and** NT-S-DP-PRO-EX-SV **or** NT-S-DP-PRO-AV-PB and NT-S-DP-PRO-AV-PV **or** NT-S-DP-PRO-EX-PB and NT-S-DP-PRO-EX-PV **ULT:** NT-S-DP-ULT-AV-SB **and** NT-S-DP-ULT-AV-SV **or** NT-S-DP-ULT-EX-SB **and** NT-S-DP-ULT-EX-SV **or** NT-S-DP-ULT-AV-PB **and** NT-S-DP-ULT-AV-PV **or** NT-S-DP-ULT-EX-PB **and** NT-S-DP-ULT-EX-PV **or** NT-S-DP-ULT-AV-UB **and** NT-S-DP-ULT-AV-UV **or** NT-S-DP-ULT-EX-UB **and** NT-S-DP-ULT-EX-UV

Table 57.1 Nutanix Software NCI, NCI-C, NCP (NCI-PRO), NCP (NCI-ULT), NCP-C (NCIC-PRO), NCP-C (NCIC-ULT) 3 YEAR SUBSCRIPTION with professional services PID Mapping

PRO: **NCI** NT-NCI-PRO-PR NT-NCI-PRO-MC NT-NCI-PRO-AP NT-NCI-PRO-AM NT-NCI-PRO-FP NT-NCI-PRO-FM **NCI -C** NT-NCIC-PRO-PR NT-NCIC-PRO-MC NT-NCIC-PRO-FP NT-NCIC-PRO-FM **NCP (NCI-PRO)** NT-NCP-NCI-PRO-PR NT-NCP-NCI-PRO-MC NT-NCP-NCI-PRO-AP NT-NCP-NCI-PRO-AM NT-NCP-NCI-PRO-FP NT-NCP-NCI-PRO-FM **NCP - C (NCIC-PRO)** NT-NCP-NCIC-PO-PR NT-NCP-NCIC-PO-MC NT-NCP-NCIC-PO-FP NT-NCP-NCIC-PO-FM		

NOTE: Recommended to select the matching/higher level of service options for the subscribed software. For example: If ULT (Ultimate) software is selected, recommended to choose the ULT services from the below columns. However, it is allowed to select the lower version of the services.

Table 58 Nutanix Software NCM STR [redacted] with Professional Services PID Mapping

Software PIDs	Recommended Professional Services PIDs	
	NCM Intelligent Operations Design (select one service)	NCM Intelligent Operations Deployment (select one service)
STR: NCM NT-NCM-STR-PR NT-NCM-STR-MC NT-NCM-STR-AP NT-NCM-STR-AM NT-NCM-STR-FP NT-NCM-STR-FM	STR: NT-W-OD-STR-SD PRO: NT-W-OD-PRO-SD ULT: NT-W-OD-ULT-SD	STR: NT-S-OP-STR PRO: NT-S-OP-PRO ULT: NT-S-OP-ULT

NOTE: Recommended to select the matching/higher level of service options for the subscribed software. For example: If ULT (Ultimate) software is selected, recommended to choose the ULT services from the below columns. However, it is allowed to select the lower version of the services.

Table 59 Nutanix Software NCM PRO, NCM ULT, NCP (NCM-PRO), NCP (NCM-ULT) with Professional services

Software PIDs	Mandatory Professional Services PIDs	
	NCM Intelligent Operations Design (select one service)	NCM Intelligent Operations Deployment (select one service)
PRO: **NCM** NT-NCM-PRO-PR NT-NCM-PRO-MC NT-NCM-PRO-AP NT-NCM-PRO-AM NT-NCM-PRO-FP NT-NCM-PRO-FM **NCP (NCM-PRO)** NT-NCP-NCM-PRO-PR NT-NCP-NCM-PRO-MC NT-NCP-NCM-PRO-AP NT-NCP-NCM-PRO-AM NT-NCP-NCM-PRO-FP NT-NCP-NCM-PRO-FM **ULT:** **NCM** NT-NCM-ULT-PR NT-NCM-ULT-MC NT-NCM-ULT-AP NT-NCM-ULT-AM NT-NCM-ULT-FP NT-NCM-ULT-FM **NCP (NCM-ULT)** NT-NCP-NCM-ULT-PR NT-NCP-NCM-ULT-MC NT-NCP-NCM-ULT-AP NT-NCP-NCM-ULT-AM NT-NCP-NCM-ULT-FP NT-NCP-NCM-ULT-FM	**STR:** NT-W-OD-STR-SD **PRO:** NT-W-OD-PRO-SD **ULT:** NT-W-OD-ULT-SD	**STR:** NT-S-OP-STR **PRO:** NT-S-OP-PRO **ULT:** NT-S-OP-ULT



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