Spec Sheet

UCS C880A M8 Rack Server

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https://www.cisco.com/c/en/us/products/servers-unified-computing/ucs-c-series-rack-servers/datasheet-listing.html

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OVERVIEW

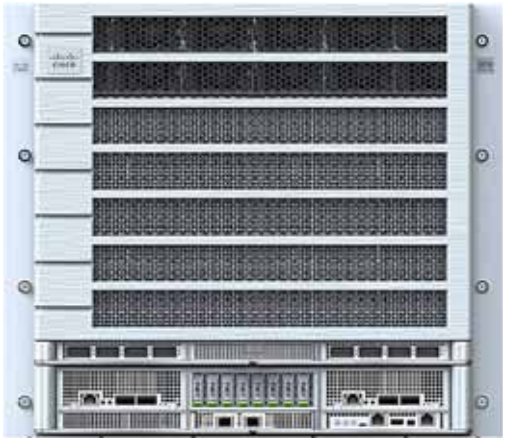
The Cisco UCS C880A M8 Rack Server is a dense GPU server designed to deliver scalable accelerated compute capabilities to address the most demanding AI workloads, including deep learning/Large Language Model (LLM) training, model fine-tuning, large model inferencing, and Retrieval-Augmented Generation (RAG).

The Cisco UCS C880A M8 Rack Server offers 8 NVIDIA HGX B300 Tensor Core GPUs to deliver massive accelerated compute performance in a single server, as well as one NVIDIA ConnectX-8 SuperNIC per GPU to scale AI model training across a cluster of dense-GPU servers.

The server is offered in fixed configurations with resources optimized for intensive AI and HPC workloads.

Figure 1 Front and Rear views of Cisco UCS C880A M8 Rack Server

Front View



Rear View

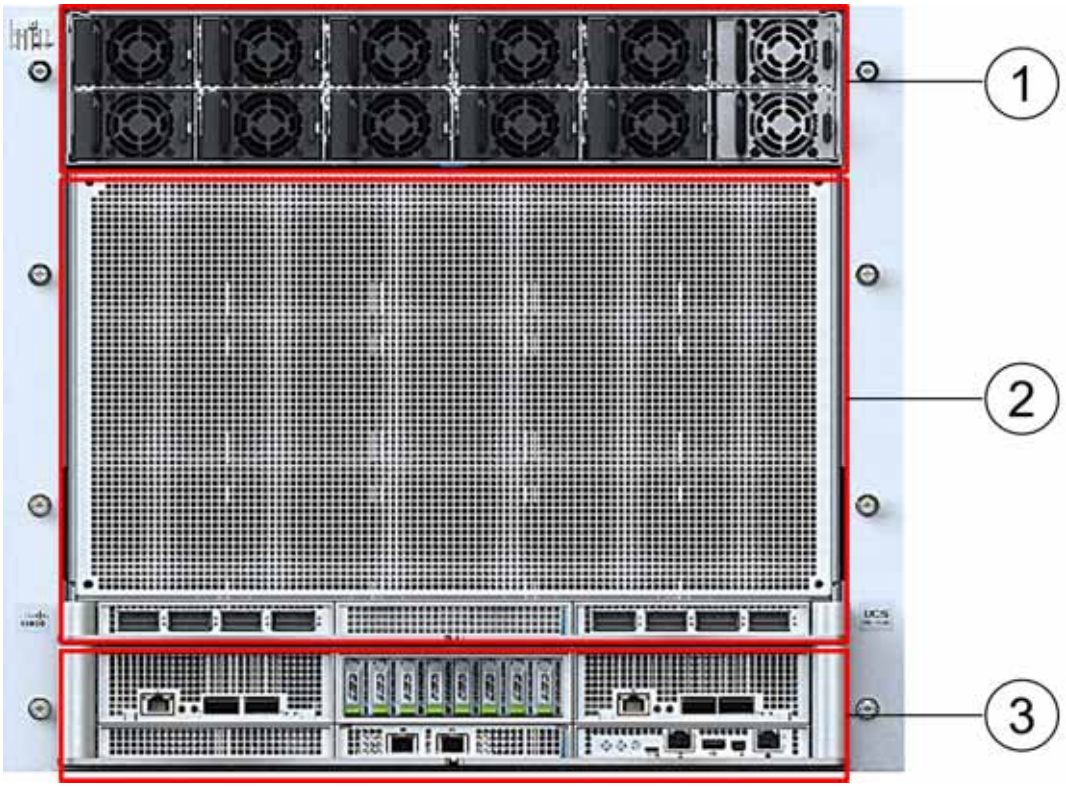


DETAILED VIEWS

Cisco UCS C880A M8 Rack Server Front View

Figure 2 is a front view of the Cisco UCS C880A M8 Rack Server.

Figure 2 Cisco UCS C880A M8 Rack Server Front View

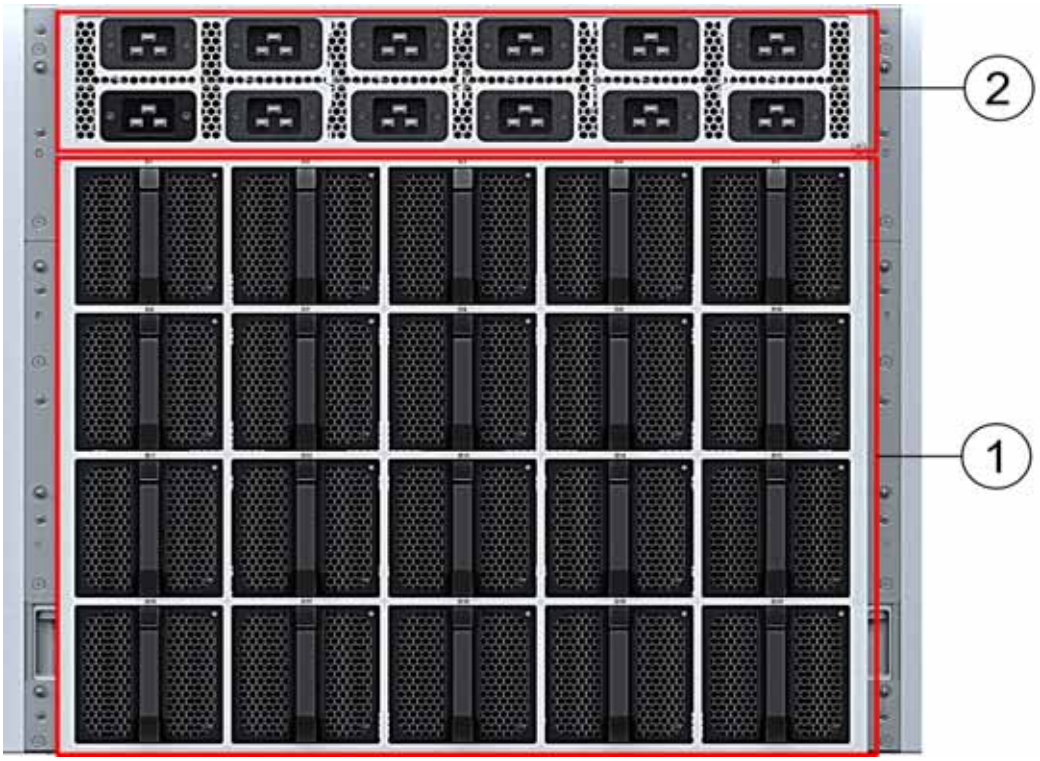


1	Power Supply Units	3	CPU Tray
2	GPU Tray	-	-

Cisco UCS C880A M8 Rack Server Rear View

Figure 2 is a front view of the Cisco UCS C880A M8 Rack Server.

Figure 3 Cisco UCS C880A M8 Rack Server Front View

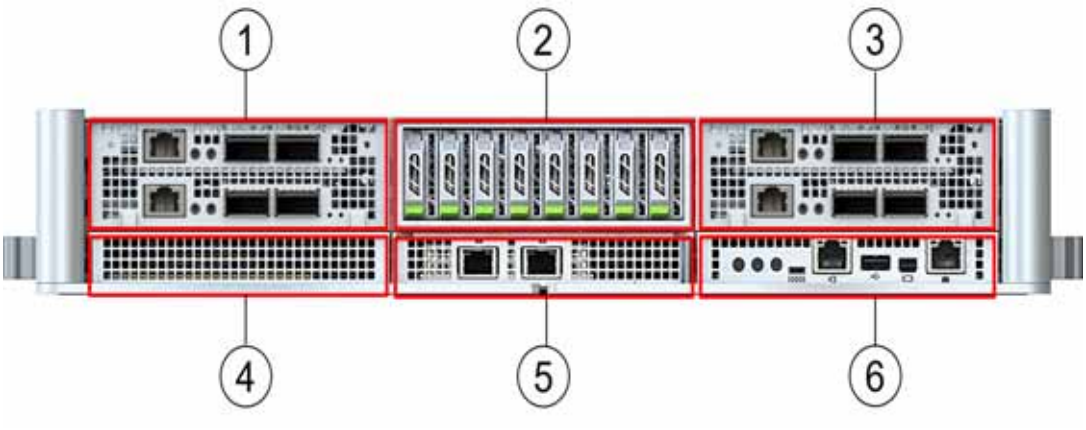


1	System Fans	2	AC In Units

CPU Tray

Figure 4 is a front view of the CPU Tray.

Figure 4 CPU Tray

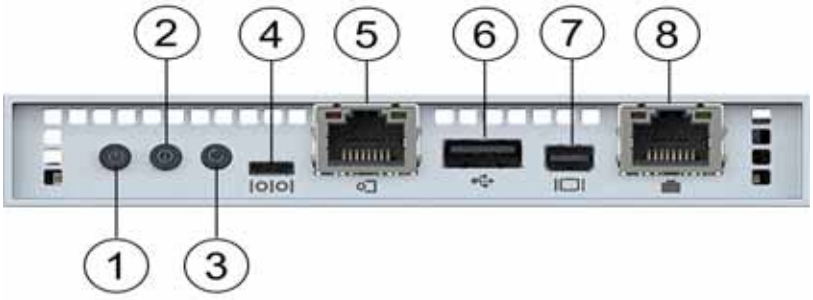


1	2 Slot Riser Cage	4	M.2 drives with RAID (0/1) controller
2	E1.S Drives	5	OCP Module
3	2 Slot Riser Cage	6	DC-SCM Module

DC-SCM Module

Figure 5 DC-SCM Module

Figure 5 DC-SCM Module

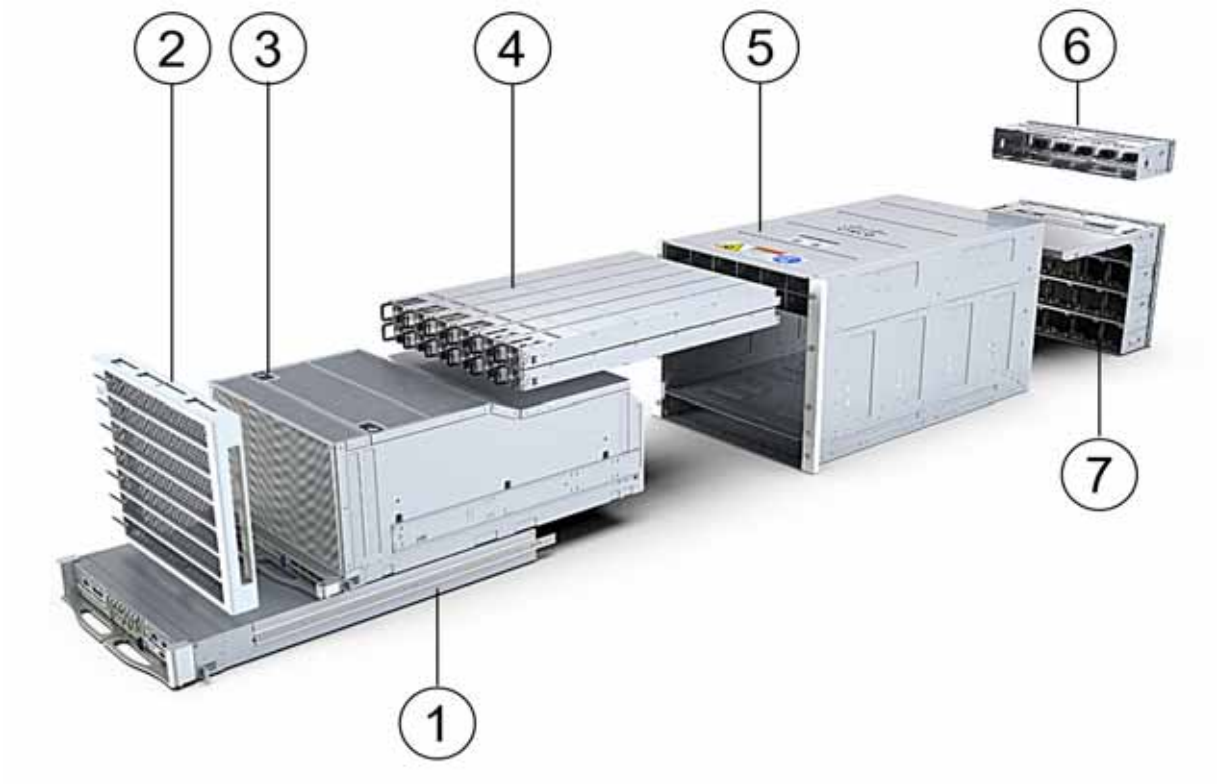


1	Power Button	5	1GbE RJ45 Host baseboard management controller (BMC)
2	ID Button	6	USB 3.2 Gen1x1 Type A Port
3	Reset Button	7	Mini Display Port
4	Micro-USB Debug Port	8	1GbE onboard NIC with RJ45

Server Components

Figure 6 shows server components

Figure 6 Server components



1	CPU Tray Module	5	Main Chassis
2	Bezel	6	AC In Module
3	GPU Tray Module	7	System Fans (20)
4	Power Supply Units	-	-

STANDARD CAPABILITIES and FEATURES

NOTE: The UCS C880A M8 Rack Server comes with some components pre-configured/automatically included, while others require the user to make a selection

Table 1 lists the capabilities and features of the base Cisco UCS C880A M8 Rack Server.

Table 1 Capabilities and Features

Capability/Feature	Description
Chassis	10RU Rack Server
GPU	8x NVIDIA HGX B300 NVL8
GPU Memory	A total of 2.3 TB of Capacity
CPU	Two 6th Gen Intel Xeon Processors
Memory	■ Up to 32 DDR5-6400 MT/s DIMM slots ■ Up to 4 TB of Capacity (32x 128GB DIMMs)
Networking Cards	■ 8x Integrated NVIDIA ConnectX-8 for East-West Network ■ 4 PCIe Gen5 x16 FHHL for North-South Network ■ 1 OCP TFF Gen3 x8
LAN	1x OCP 3.0 TFF Gen5 x8 NIC (CPU1) with 2x 10GbE RJ-45 Ethernet
Management	Host baseboard management controller through DC-SCM with RJ45, IPMI 2.0, KVM with Dedicated LAN, Watchdog
Storage	■ Up to 2X PCIe3 x4 960 GB M.2 SATA (Boot Device) ■ Up to 8x PCIe5 Gen5 x4 E1.S NVMe SSDs (Data Cache)
System Cooling	20x Hot-swappable (N+1) For System Cooling
Front IO	2 USB 2.0, 1 ID Button, 1 Power Button
Rear IO	1 USB 3.0 A,1mDP, 1 ID Button, 1 Power Button, 1 USB 2.0 A UART (for debugging), 1 RJ45 (mgmt.), 1 System ID LED/button
Power	12x 50V 3200W (N+N) PSUs
System Power Consumption	Up to 14.3KW
System BIOS	AMI® BIOS

CONFIGURING the SERVER (User Selectable)

Follow these steps to configure the UCS C880A M8 Rack Server:

- *STEP 1 VERIFY SERVER SKU, page 10*
- *STEP 2 SELECT INPUT POWER CORD(s) (REQUIRED), page 19*
- *STEP 3 SELECT ADDITIONAL DRIVES (OPTIONAL), page 20*
- *STEP 4 SELECT NVIDIA AIE ESSENTIAL LICENSE (OPTIONAL), page 21*
- *STEP 5 SELECT OPTICS OPTIONS, page 22*

STEP 1 VERIFY SERVER SKU

NOTE: The UCS C880A M8 Rack Server comes with some components pre-configured/automatically included, while others require the user to make a selection.

- **Auto Included:** *Table 3.1* to *Table 3.8* shows the auto included components with the respective nodes.
- **User Selectable:** *STEP 2* to **STEP 5**, please select the components that you want to include with your selected node.

Table 2 PID of Major Line Bundle (MLB)

Product ID (PID)	Description
UCS-DGPUM8-MLB	UCS M8 Dense GPU Server MLB This major line bundle (MLB) consists of the GPU server, NVIDIA NVAIE S/Ws, and recommended Cisco optics PIDs.

Select one of the product ID (PID) from *Table 3*.0

Table 3.0 PIDs of the UCS C880A M8 Rack Server

Product ID (PID)	Description
UCSC-880A-M8-B301[1]	C880A M8 8xB300 GPU,2x 6776P CPU, 8x CX-8s, 2x CX-7s, 3TB Mem
UCSC-880A-M8-B302[2]	C880A M8 8xB300 GPU,2x 6776P CPU, 8x CX-8s, 2x B3220, 3TB Mem
UCSC-880A-M8-B303[3]	C880A M8 8xB300 GPU,2x 6776P CPU, 8x CX-8s, 2x CX-7s, 4TB Mem
UCSC-880A-M8-B304[4]	C880A M8 8xB300 GPU,2x 6776P CPU, 8x CX-8s, 2x B3220, 4TB Mem
UCSC-880A-M8-B305[5]	C880A M8 8xB300 GPU,2x 6776P CPU, 8x CX-8s, 2x B3240, 3TB Mem
UCSC-880A-M8-B306[6]	C880A M8 8xB300 GPU,2x 6776P CPU, 8x CX-8s, 2x B3240, 4TB Mem
UCSC-880A-M8-B307[7]	C880A M8 8xB300 GPU,2x 6776P CPU, 8x CX-8s, 2x CX-7s, 2TB Mem
UCSC-880A-M8-B308[8]	C880A M8 8xB300 GPU,2x 6767P CPU, 8x CX-8s, 2x CX-7s, 3TB Mem

Notes:

1. Refer to the *Table 3.1* for auto included PIDs/Components with the selection of *UCSC-880A-M8-B301* server
2. Refer to the *Table 3.2* for auto included PIDs/Components with the selection of *UCSC-880A-M8-B302* server
3. Refer to the *Table 3.3* for auto included PIDs/Components with the selection of *UCSC-880A-M8-B303* server
4. Refer to the *Table 3.4* for auto included PIDs/Components with the selection of *UCSC-880A-M8-B304* server
5. Refer to the *Table 3.5* for auto included PIDs/Components with the selection of *UCSC-880A-M8-B305* server
6. Refer to the *Table 3.6* for auto included PIDs/Components with the selection of *UCSC-880A-M8-B306* server
7. Refer to the *Table 3.7* for auto included PIDs/Components with the selection of *UCSC-880A-M8-B307* server
8. Refer to the *Table 3.8* for auto included PIDs/Components with the selection of *UCSC-880A-M8-B308* server

NOTE: Use the *STEP 2* to **STEP 5** on the following pages to configure the server with the components that you want to include.

UCSC-880A-M8-B301

Table 3.1 lists auto included components with the UCSC-880A-M8-B301 Server Node.

Table 3.1 Auto Included Components with UCSC-880A-M8-B301

Product ID (PID)	PID Description	QTY
Base Server		
UCSC-880A-M8-B301	C880A M8 8xB300 GPU,2x 6776P CPU, 8x CX-8s, 2x CX-7s, 3TB Mem	
GPU Sled		
UCSAI-880A-B3-SLD	UCS C880A M8 GPU SLED B300 NV	1
CPU Sled		
UCSAI-880A-CC-SLD	UCS C880A M8 CPU SLED	1
UCSAI-CPU-I6776P	Intel GNR 6776P CPU	2
UCSAI-880A-HS	Intel GNR Heatsink	2
Memory		
UCSAI-MRX96G2RF5	96GB DDR5-6400 RDIMM 2Rx4 (24Gb)	32
Networking Card		
UCSAI-P-N7CS200GF	UCSAI M8 NVIDIA ConnectX-7 2x200G (crypto-enabled)	2
UCSAI-O-ID10GC	UCSAI M8 OCP INTEL X710 T2L	1
Storage		
UCSAI-NVES3T8M1V	3.84TB E1.S Micron Gen5 1X NVMe	2
Boot Drive		
UCSAI-M2-960G	960GB M.2 SATA Micron G2 SSD	2
UCSAI-M2-HWRAID	Cisco Boot optimized M.2 Raid controller	1
Power Supply		
UCSAI-PSU-3200W	UCSAI M8 PSU 3200W 54V	12
DC-SCM Card		
UCSAI-880A-DCSCM	UCS C880A M8 DC-SCM Card NVIDIA GPU, 6th Gen Intel Xeon CPU	1

UCSC-880A-M8-B302

Table 3.2 lists auto included components with the UCSC-880A-M8-B302 Server Node.

Table 3.2 Auto Included Components with UCSC-880A-M8-B302

Product ID (PID)	PID Description	QTY
Base Server		
UCSC-880A-M8-B302	C880A M8 8xB300 GPU,2x 6776P CPU, 8x CX-8s, 2x B3220, 3TB Mem	
GPU Sled		
UCSAI-880A-B3-SLD	UCS C880A M8 GPU SLED B300 NV	1
CPU Sled		
UCSAI-880A-CC-SLD	UCS C880A M8 CPU SLED	1
UCSAI-CPU-I6776P	Intel GNR 6776P CPU	2
UCSAI-880A-HS	Intel GNR Heatsink	2
Memory		
UCSAI-MRX96G2RF5	96GB DDR5-6400 RDIMM 2Rx4 (24Gb)	32
Networking Card		
UCSAI-P-NC3220	UCSAI M8 Nvidia BlueField-3 B3220 DPU 2x200G (crypto)	2
UCSAI-O-ID10GC	UCSAI M8 OCP INTEL X710 T2L	1
Storage		
UCSAI-NVES3T8M1V	3.84TB E1.S Micron Gen5 1X NVMe	2
Boot Drive		
UCSAI-M2-960G	960GB M.2 SATA Micron G2 SSD	2
UCSAI-M2-HWRAID	Cisco Boot optimized M.2 Raid controller	1
Power Supply		
UCSAI-PSU-3200W	UCSAI M8 PSU 3200W 54V	12
DC-SCM Card		
UCSAI-880A-DCSCM	UCS C880A M8 DC-SCM Card NVIDIA GPU, 6th Gen Intel Xeon CPU	1

UCSC-880A-M8-B303

Table 3.3 lists auto included components with the UCSC-880A-M8-B303 Server Node.

Table 3.3 Auto Included Components with UCSC-880A-M8-B303

Product ID (PID)	PID Description	QTY
Base Server		
UCSC-880A-M8-B303	C880A M8 8xB300 GPU,2x 6776P CPU, 8x CX-8s, 2x CX-7s, 4TB Mem	
GPU Sled		
UCSAI-880A-B3-SLD	UCS C880A M8 GPU SLED B300 NV	1
CPU Sled		
UCSAI-880A-CC-SLD	UCS C880A M8 CPU SLED	1
UCSAI-CPU-I6776P	Intel GNR 6776P CPU	2
UCSAI-880A-HS	Intel GNR Heatsink	2
Memory		
UCSAI-MR128G2RG5	128GB DDR5-6400 RDIMM 2Rx4 (32Gb)	32
Networking Card		
UCSAI-P-N7CS200GF	UCSAI M8 NVIDIA ConnectX-7 2x200G (crypto-enabled)	2
UCSAI-O-ID10GC	UCSAI M8 OCP INTEL X710 T2L	1
Storage		
UCSAI-NVES3T8M1V	3.84TB E1.S Micron Gen5 1X NVMe	2
Boot Drive		
UCSAI-M2-960G	960GB M.2 SATA Micron G2 SSD	2
UCSAI-M2-HWRAID	Cisco Boot optimized M.2 Raid controller	1
Power Supply		
UCSAI-PSU-3200W	UCSAI M8 PSU 3200W 54V	12
DC-SCM Card		
UCSAI-880A-DCSCM	UCS C880A M8 DC-SCM Card NVIDIA GPU, 6th Gen Intel Xeon CPU	1

UCSC-880A-M8-B304

Table 3.4 lists auto included components with the UCSC-880A-M8-B304 Server Node.

Table 3.4 Auto Included Components with UCSC-880A-M8-B304

Product ID (PID)	PID Description	QTY
Base Server		
UCSC-880A-M8-B304	C880A M8 8xB300 GPU,2x 6776P CPU, 8x CX-8s, 2x B3220, 4TB Mem	
GPU Sled		
UCSAI-880A-B3-SLD	UCS C880A M8 GPU SLED B300 NV	1
CPU Sled		
UCSAI-880A-CC-SLD	UCS C880A M8 CPU SLED	1
UCSAI-CPU-I6776P	Intel GNR 6776P CPU	2
UCSAI-880A-HS	Intel GNR Heatsink	2
Memory		
UCSAI-MR128G2RG5	128GB DDR5-6400 RDIMM 2Rx4 (32Gb)	32
Networking Card		
UCSAI-P-NC3220	UCSAI M8 Nvidia BlueField-3 B3220 DPU 2x200G (crypto)	2
UCSAI-O-ID10GC	UCSAI M8 OCP INTEL X710 T2L	1
Storage		
UCSAI-NVES3T8M1V	3.84TB E1.S Micron Gen5 1X NVMe	2
Boot Drive		
UCSAI-M2-960G	960GB M.2 SATA Micron G2 SSD	2
UCSAI-M2-HWRAID	Cisco Boot optimized M.2 Raid controller	1
Power Supply		
UCSAI-PSU-3200W	UCSAI M8 PSU 3200W 54V	12
DC-SCM Card		
UCSAI-880A-DCSCM	UCS C880A M8 DC-SCM Card NVIDIA GPU, 6th Gen Intel Xeon CPU	1

UCSC-880A-M8-B305

Table 3.5 lists auto included components with the UCSC-880A-M8-B305 Server Node.

Table 3.5 Auto Included Components with UCSC-880A-M8-B305

Product ID (PID)	PID Description	QTY
Base Server		
UCSC-880A-M8-B305	C880A M8 8xB300 GPU,2x 6776P CPU, 8x CX-8s, 2x B3240, 3TB Mem	
GPU Sled		
UCSAI-880A-B3-SLD	UCS C880A M8 GPU SLED B300 NV	1
CPU Sled		
UCSAI-880A-CC-SLD	UCS C880A M8 CPU SLED	1
UCSAI-CPU-I6776P	Intel GNR 6776P CPU	2
UCSAI-880A-HS	Intel GNR Heatsink	2
Memory		
UCSAI-MRX96G2RF5	96GB DDR5-6400 RDIMM 2Rx4 (24Gb)	32
Networking Card		
UCSAI-P-NC3240	UCSAI M8 Nvidia BlueField-3 B3240 DPU cold-aisle(crypto)	2
UCSAI-O-ID10GC	UCSAI M8 OCP INTEL X710 T2L	1
Storage		
UCSAI-NVES3T8M1V	3.84TB E1.S Micron Gen5 1X NVMe	2
Boot Drive		
UCSAI-M2-960G	960GB M.2 SATA Micron G2 SSD	2
UCSAI-M2-HWRAID	Cisco Boot optimized M.2 Raid controller	1
Power Supply		
UCSAI-PSU-3200W	UCSAI M8 PSU 3200W 54V	12
DC-SCM Card		
UCSAI-880A-DCSCM	UCS C880A M8 DC-SCM Card NVIDIA GPU, 6th Gen Intel Xeon CPU	1

UCSC-880A-M8-B306

Table 3.6 lists auto included components with the UCSC-880A-M8-B306 Server Node.

Table 3.6 Auto Included Components with UCSC-880A-M8-B306

Product ID (PID)	PID Description	QTY
Base Server		
UCSC-880A-M8-B306	C880A M8 8xB300 GPU,2x 6776P CPU, 8x CX-8s, 2x B3240, 4TB Mem	
GPU Sled		
UCSAI-880A-B3-SLD	UCS C880A M8 GPU SLED B300 NV	1
CPU Sled		
UCSAI-880A-CC-SLD	UCS C880A M8 CPU SLED	1
UCSAI-CPU-I6776P	Intel GNR 6776P CPU	2
UCSAI-880A-HS	Intel GNR Heatsink	2
Memory		
UCSAI-MR128G2RG5	128GB DDR5-6400 RDIMM 2Rx4 (32Gb)	32
Networking Card		
UCSAI-P-NC3240	UCSAI M8 Nvidia BlueField-3 B3240 DPU cold-aisle(crypto)	2
UCSAI-O-ID10GC	UCSAI M8 OCP INTEL X710 T2L	1
Storage		
UCSAI-NVES3T8M1V	3.84TB E1.S Micron Gen5 1X NVMe	2
Boot Drive		
UCSAI-M2-960G	960GB M.2 SATA Micron G2 SSD	2
UCSAI-M2-HWRAID	Cisco Boot optimized M.2 Raid controller	1
Power Supply		
UCSAI-PSU-3200W	UCSAI M8 PSU 3200W 54V	12
DC-SCM Card		
UCSAI-880A-DCSCM	UCS C880A M8 DC-SCM Card NVIDIA GPU, 6th Gen Intel Xeon CPU	1

UCSC-880A-M8-B307

Table 3.7 lists auto included components with the UCSC-880A-M8-B307 Server Node.

Table 3.7 Auto Included Components with UCSC-880A-M8-B307

Product ID (PID)	PID Description	QTY
Base Server		
UCSC-880A-M8-B307	C880A M8 8xB300 GPU,2x 6776P CPU, 8x CX-8s, 2x CX-7s, 2TB Mem	
GPU Sled		
UCSAI-880A-B3-SLD	UCS C880A M8 GPU SLED B300 NV	1
CPU Sled		
UCSAI-880A-CC-SLD	UCS C880A M8 CPU SLED	1
UCSAI-CPU-I6767P	Intel GNR 6767P CPU	2
UCSAI-880A-HS	Intel GNR Heatsink	2
Memory		
UCSAI-MRX64G2RE5	64GB DDR5-6400 RDIMM 2Rx4 (16Gb)	32
Networking Card		
UCSAI-P-N7CS200GF	UCSAI M8 NVIDIA ConnectX-7 2x200G (crypto-enabled)	2
UCSAI-O-ID10GC	UCSAI M8 OCP INTEL X710 T2L	1
Storage		
UCSAI-NVES3T8M1V	3.84TB E1.S Micron Gen5 1X NVMe	2
Boot Drive		
UCSAI-M2-960G	960GB M.2 SATA Micron G2 SSD	2
UCSAI-M2-HWRAID	Cisco Boot optimized M.2 Raid controller	1
Power Supply		
UCSAI-PSU-3200W	UCSAI M8 PSU 3200W 54V	12
DC-SCM Card		
UCSAI-880A-DCSCM	UCS C880A M8 DC-SCM Card NVIDIA GPU, 6th Gen Intel Xeon CPU	1

UCSC-880A-M8-B308

Table 3.8 lists auto included components with the UCSC-880A-M8-B308 Server Node.

Table 3.8 Auto Included Components with UCSC-880A-M8-B308

Product ID (PID)		PID Description	Q
Base Server			
UCSC-880A-M8-B308		C880A M8 8xB300 GPU,2x 6767P CPU, 8x CX-8s, 2x CX-7s, 3TB Mem	
GPU Sled			
UCSAI-880A-B3-SLD		UCS C880A M8 GPU SLED B300 NV	
CPU Sled			
UCSAI-880A-CC-SLD		UCS C880A M8 CPU SLED	
UCSAI-CPU-I6776P		Intel GNR 6776P CPU	
UCSAI-880A-HS		Intel GNR Heatsink	
Memory			
UCSAI-MRX96G2RF5		96GB DDR5-6400 RDIMM 2Rx4 (24Gb)	
Networking Card			
UCSAI-P-N7CS200GF		UCSAI M8 NVIDIA ConnectX-7 2x200G (crypto-enabled)	
UCSAI-O-ID10GC		UCSAI M8 OCP INTEL X710 T2L	
Storage			
UCSAI-NVES3T8M1V		3.84TB E1.S Micron Gen5 1X NVMe	
Boot Drive			
UCSAI-M2-960G		960GB M.2 SATA Micron G2 SSD	
UCSAI-M2-HWRAID		Cisco Boot optimized M.2 Raid controller	
Power Supply			
UCSAI-PSU-3200W		UCSAI M8 PSU 3200W 54V	
DC-SCM Card			
UCSAI-880A-DCSCM		UCS C880A M8 DC-SCM Card NVIDIA GPU, 6th Gen Intel Xeon CPU	

STEP 2 SELECT INPUT POWER CORD(s) (REQUIRED)

Select the appropriate power cords option from the *Table 4*.

Table 4 Available Power Cords

Product ID (PID)	PID Description
CAB-C13-CBN	CABASY,WIRE,JUMPER CORD, 27" L, C13/C14, 10A/250V
CAB-C19-C20-IND	Power Cord C19-C20 India
CAB-SABS-C19-IND	SABS 164-1 to IEC-C19 India
CAB-C19-C20-3M-JP	Power Cord C19-C20, 3M/10ft Japan PSE mark
CAB-AC-16A-AUS	Power Cord, 250VAC, 16A, Australia C19
CAB-9K10A-EU	Power Cord, 250VAC 10A CEE 7/7 Plug, EU
CAB-9K16A-KOR	Power Cord 250VAC 16A, Korea, Src Plug
NO-POWER-CORD	ECO friendly green option, no power cable will be shipped

STEP 3 SELECT ADDITIONAL DRIVES (OPTIONAL)

The Additional drives are listed in *Table 5*

Table 5 Additional drives

Product ID (PID)	PID Description
UCSAI-NVES15TM1V=	15.36TB E1.S Micron Gen5 1X NVMe MTFDLCE15T3THA-1BK1JABYY
UCSAI-NVES15TM1VE=	15.36TB E1.S FIPS SED Micron Gen5 MTFDLCE15T3THA-1BK1DFCYY
UCSAI-NVES3T8M1V=	3.84TB E1.S Micron Gen5 1X NVMe MTFDLCE3T8THA-1BK1JABYY
UCSAI-NVES3T8M1VE=	3.84TB E1.S FIPS SED Micron Gen5 1X MTFDLCE3T8THA-1BK1DFCYY
UCSAI-NVES7T6M1V=	7.68TB E1.S Micron Gen5 1X NVMe MTFDLCE7T6THA-1BK1JABYY
UCSAI-NVES7T6M1VE=	7.68TB E1.S FIPS SED Micron Gen5 1X MTFDLCE7T6THA-1BK1DFCYY

STEP 4 SELECT NVIDIA AIE ESSENTIAL LICENSE (OPTIONAL)

Table 6 NVIDIA AIE Essential License

Product ID (PID)	PID Description
Software License	
NV-AIE-LIC=	NVIDIA AI Essential Software License Spare(Order QTY 1 only)
Standard License	
NV-AIE-P-5Y	24x7 Support Services for NVIDIA AIE Essentials per GPU,5 Yr
NV-AIE-24X7S-1Y	NVIDIA AIE Essential Subscription & 24x7 Supp per GPU, 1Y
NV-AIE-P-1Y	24x7 Support Services for NVIDIA AIE Essentials per GPU,1 Yr
NV-AIE-24X7S-3Y	NVIDIA AIE Essential Subscription & 24x7 Supp per GPU, 3Y
NV-AIE-P-3Y	24x7 Support Services for NVIDIA AIE Essentials per GPU,3 Yr
NV-AIE-24X7S-5Y	NVIDIA AIE Essential Subscription & 24x7 Supp per GPU, 5Y
NV-AIE-P-5Y	24x7 Support Services for NVIDIA AIE Essentials per GPU,5 Yr
NV-AIE-S-1Y	NVIDIA AI Enterprise Essentials Subscription per GPU, 1 Year
NV-AIE-S-3Y	NVIDIA AI Enterprise Essentials Subscription per GPU, 3 Year
NV-AIE-S-5Y	NVIDIA AI Enterprise Essentials Subscription per GPU, 5 Year
Education	
NV-AIE-EDP-5Y	24x7 Support Services for NVIDIA AIE Ess per GPU, EDU, 5 Yr
NV-AIE-24X7EDS-1Y	NVIDIA AIE Essential Subscription & 24x7 Supp per GPU EDU 1Y
NV-AIE-EDP-1Y	24x7 Support Services for NVIDIA AIE Ess per GPU, EDU, 1 Yr
NV-AIE-24X7EDS-3Y	NVIDIA AIE Essential Subscription & 24x7 Supp per GPU EDU 3Y
NV-AIE-EDP-3Y	24x7 Support Services for NVIDIA AIE Ess per GPU, EDU, 3 Yr
NV-AIE-24X7EDS-5Y	NVIDIA AIE Essential Subscription & 24x7 Supp per GPU EDU 5Y
NV-AIE-EDP-5Y	24x7 Support Services for NVIDIA AIE Ess per GPU, EDU, 5 Yr
NV-AIE-EDS-1Y	NVIDIA AIE Essentials Subscription per GPU, EDU, 1 Year
NV-AIE-EDS-3Y	NVIDIA AIE Essentials Subscription per GPU, EDU, 3 Years
NV-AIE-EDS-5Y	NVIDIA AIE Essentials Subscription per GPU, EDU, 5 Years

STEP 5 SELECT OPTICS OPTIONS

Choose Transceivers

The recommended Cisco Optics for the server are listed in **Table 7**.

Table 7 Supported Optic Cables

Product ID (PID)	Description
Optics	
QSFP-200G-SL4	200GBASE SL4 QSFP56 Transceiver, MPO, 30m over OM4 MMF
QSFP-200G-SR4-S	200GBASE SR4 QSFP56 Transceiver, MPO, 100m over OM4 MMF
QSFP-200G-FR4-S	200GBASE FR4 QSFP56 PAM4 1310nm LC Transceiver, 2Km over SMF
QSFP-400G-DR4	400G QSFP112 Transceiver, 400GBASE-DR4, MPO-12,500m parallel
OSFPR-800G-DR8	OSFP w/ Riding Heat, 800GBASE-DR8, SMF dual MPO-12 APC, 500m
Single Mode Patch Cable	
CB-M12-M12-SMF10M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, SMF, 10M
CB-M12-M12-SMF15M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, SMF, 15M
CB-M12-M12-SMF1M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, SMF, 1M
CB-M12-M12-SMF20M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, SMF, 20M
CB-M12-M12-SMF25M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, SMF, 25M
CB-M12-M12-SMF2M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, SMF, 2M
CB-M12-M12-SMF30M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, SMF, 30M
CB-M12-M12-SMF3M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, SMF, 3M
CB-M12-M12-SMF5M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, SMF, 5M
CB-M12-M12-SMF7M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, SMF, 7M
Multi-mode Patch Cable	
CB-M12-M12-MMF1.5	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, MMF, 1.5M
CB-M12-M12-MMF10M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, MMF, 10M
CB-M12-M12-MMF15M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, MMF, 15M
CB-M12-M12-MMF1M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, MMF, 1M
CB-M12-M12-MMF20M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, MMF, 20M
CB-M12-M12-MMF25M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, MMF, 25M
CB-M12-M12-MMF2M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, MMF, 2M
CB-M12-M12-MMF30M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, MMF, 30M
CB-M12-M12-MMF3M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, MMF, 3M
CB-M12-M12-MMF4M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, MMF, 4M

Table 7 Supported Optic Cables

Product ID (PID)	Description
CB-M12-M12-MMF5M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, MMF, 5M
CB-M12-M12-MMF7M	CABLE, MPO12-MPO12, TRUNK CABLE, TYPE B, MMF, 7M

SPARE PARTS

This section lists the upgrade and service-related parts for the server. Some of these parts are configured with every server.

NOTE: Some spare parts you order may also require accessories for full functionality. The spares and their accessory parts are listed in **Table 8**.

Table 8 Spare Parts

Product ID (PID)	PID Description
UCSAI-880A-CC-SLD=	UCS C880A M8 CPU SLED
UCSAI-CPU-I6776P=	Intel GNR 6776P CPU
UCSAI-880A-HS=	Intel GNR Heat sync -
UCSAI-880A-B3-SLD=	UCS C880A M8 GPU SLED B300 NV
UCSAI-MRX96G2RF5=	96GB DDR5-6400 RDIMM 2Rx4 (24Gb)
UCSAI-M2-960G=	960GB M.2 SATA Micron G2 SSD
UCSAI-M2-HWRAID=	Cisco Boot optimized M.2 Raid controller
UCSAI-NVES3T8M1V=	3.84TB E1.S Micron Gen5 1X NVMe
UCSAI-P-N7CS200GF=	UCSAI M8 NVIDIA ConnectX-7 2x200G (crypto-enabled)
UCSAI-O-ID10GC=	UCSAI M8 OCP INTEL X710 T2L
UCSAI-880A-DCSCM=	UCS C880A M8 DC-SCM Card NVIDIA GPU, 6th Gen Intel Xeon CPU
UCSAI-PSU-3200W=	UCSAI M8 PSU 3200W 54V
UCSAI-MR128G2RG5=	128GB DDR5-6400 RDIMM 2Rx4 (32Gb)
UCSAI-MRX64G2RE5=	64GB DDR5-6400 RDIMM 2Rx4 (16Gb)
UCSAI-P-NC3220=	UCSAI M8 Nvidia BlueField-3 B3220 DPU 2x200G (crypto)
UCSAI-P-NC3240=	UCSAI M8 Nvidia BlueField-3 B3240 DPU cold-aisle(crypto)
UCSAI-880A-BZL=	UCS C880A M8 Security Bezel
UCSAI-RAIL=	Ball Bearing Rail Kit for C880A M8 rack server
UCSAI-NVES15TM1V=	15.36TB E1.S Micron Gen5 1X NVMe MTFDLCE15T3THA-1BK1JABYY
UCSAI-NVES15TM1VE=	15.36TB E1.S FIPS SED Micron Gen5 MTFDLCE15T3THA-1BK1DFCYY
UCSAI-NVES3T8M1V=	3.84TB E1.S Micron Gen5 1X NVMe MTFDLCE3T8THA-1BK1JABYY
UCSAI-NVES3T8M1VE=	3.84TB E1.S FIPS SED Micron Gen5 1X MTFDLCE3T8THA-1BK1DFCYY

Table 8 Spare Parts *(continued)*

Product ID (PID)	PID Description
UCSAI-NVES7T6M1V=	7.68TB E1.S Micron Gen5 1X NVMe MTFDLCE7T6THA-1BK1JABYY
UCSAI-NVES7T6M1VE=	7.68TB E1.S FIPS SED Micron Gen5 1X MTFDLCE7T6THA-1BK1DFCYY

Manufacturer Part Numbers (MPN)

Below tables lists the Manufacturer Part Numbers for the NVIDIA NICs supported with Cisco UCS C880A M8 Rack Server

Network Cards

Table 9 Network Cards

Network Card	MPN	Legacy MPN	Vendor
NVIDIA BlueField-3 B3220 (Crypto)	900-9D3B6-00CV-AA0		NVIDIA
NVIDIA ConnectX-7 200GbE (crypto)	900-9X7AH-0079-DTZ	MCX755106AC-HEAT	NVIDIA
NVIDIA BlueField-3 B3240 for cold-aisle (Crypto)	900-9D3B6-00CN-PA0		NVIDIA

RAID Controller

Table 10 RAID controller

Raid Controller	MPN	Vendor
UCS-M2-NVRAID	800-52109-01	Broadcom

Drives

Table 11 Drives

Drives	MPN	Vendor
UCSAI-NVES3T8M1V=	MTFDLCE3T8THA-1BK1JABYY	Micron
UCSAI-NVES7T6M1V=	MTFDLCE7T6THA-1BK1JABYY	Micron
UCSAI-NVES15TM1V=	MTFDLCE15T3THA-1BK1JABYY	Micron
UCSAI-NVES3T8M1VE=	MTFDLCE3T8THA-1BK1DFCYY	Micron
UCSAI-NVES7T6M1VE=	MTFDLCE7T6THA-1BK1DFCYY	Micron
UCSAI-NVES15TM1VE=	MTFDLCE15T3THA-1BK1DFCYY	Micron

TECHNICAL SPECIFICATIONS

Dimensions and Weight

Table 12 Cisco UCS C880A M8 Rack Server Dimensions and Weight

Parameter	Value
Height	441 mm (17.36 in)
Width	447 mm (17.6 in)
Depth	800 mm (31.5 in) 904 mm (35.5 in) (includes CPU sled ejector and fan handles)
Weight	164kg (362lbs)

Environmental Specifications



NOTE: The upper operating temperature limit and rate of change may be limited by the type and number of options installed. The listed sound levels apply to standard shipping configurations. Additional options may result in increased sound levels.

Table 13 Cisco UCS C880A M8 Rack Server Environmental Specifications

Parameter	Value
Temperature range[1]	
Operating Temperature/Relative Humidity Range	5°C to 35°C (45°F to 95°F) / 5% to 85% (Non-condensing)
Storage Temperature/Relative Humidity Range	-40°C to 70°C (-40°F to 158°F) / 5% to 90% (Non-condensing)

Notes:

1. All temperature ratings shown are for sea level. An altitude derating of 1°C per 304.8 m (1.8°F per 1,000 ft) to 3048 m (10,000 ft) is applicable. No direct sunlight allowed. Maximum rate of change is 20°C/hr (36°F/hr).

System Rating

Table 14 Cisco UCS C880A M8 Rack Server System rating

Parameter	Value
Total Input	12 (N+N) x 3200 W Redundant Titanium grade power supply supported.
For System	200~277 Vac, 50-60Hz, 16A per PSU

Americas Headquarters
Cisco Systems, Inc.
San Jose, CA

Asia Pacific Headquarters
Cisco Systems (USA) Pte. Ltd.
Singapore

Europe Headquarters
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The Netherlands

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