Cisco Catalyst IE3400 Heavy Duty Series

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The Cisco Catalyst IE3400 Heavy Duty Series is Cisco's next-generation, IP67-rated switching platform designed to provide enhanced network-based security, segmentation, and visibility in the most demanding industrial environments. The Cisco Catalyst IE3400 Heavy Duty Series switches extend the power of intent-based networking to the harshest Internet of Things (IoT) edge.

Product overview

The Cisco Catalyst IE3400 Heavy Duty Series switches deliver the advanced capabilities similar to the Cisco Catalyst IE3400 Rugged Series in environments that have heavy exposure to dust and water. These switches are available with 8, 16, or 24 Fast Ethernet (D-coded) or Gigabit Ethernet (X-coded) M12 interfaces. The switches can be wall mounted and deployed without a housing cabinet.

The IE3400 Heavy Duty Series switches are powered by Cisco IOS XE, a next-generation operating system with built-in security and trust, featuring Secure Boot, image signing, and the Cisco Trust Anchor module. Cisco IOS XE also provides API-driven configuration with open APIs and data models.

The IE3400 Heavy Duty Series can be managed with powerful tools such as Cisco Catalyst Center or easily configured through the redesigned, modern, and user-friendly WebUI. Cisco AI Troubleshooting for Industrial Networks provides powerful agentic capabilities that empower OT teams to quickly detect, diagnose, and resolve network issues while reducing unnecessary escalations.

The Cisco Catalyst IE3400 Heavy Duty Series offers edge compute capabilities to run IOx applications, enabling new capabilities in the OT network with no impact on switching performance. With the Cisco Cyber Vision app, IE3400H identifies connected assets, their profiles, vulnerabilities, and communication patterns to assess your OT security posture and help drive cybersecurity best practices. Cyber Vision also turns the IE3400H into a zero-trust remote access gateway to help you control risks from remote users who need to configure, maintain, or troubleshoot connected assets. The platform also supports Flexible NetFlow for real-time visibility into traffic patterns and threat analysis with Cisco Secure Network Analytics®.



Figure 1.
Front of IE-3400H-8T, IE-3400H-16T and IE-3400H-24T (from left to right)

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Features and benefits

Table 1. IE3400H Features and benefits

Feature	Benefit
Heavy-duty design and industry compliance	Mount the switch close to where the work is done, in the most demanding environments. • IP66/IP67 rated, providing protection against dust and submersion in water. • Hardened for vibration, shock and surge, electrical noise, and extreme temperatures (–40°C to 75°C [–40°F to 167°F]). • Compliant with industrial automation standards; supports Ethernet/IP Common Industrial Protocol (CIP). • Supports Supervisory Control And Data Acquisition (SCADA) protocol classification—Generic Object-Oriented Substation Events (GOOSE) messaging, Modbus TCP/IP.
Advanced network-based security	Enjoy peace of mind with Cisco's no-compromise security feature set, including: • Flexible NetFlow for enhanced flow and threat visibility. • Cisco TrustSec® software-defined segmentation allows you to segment industrial devices and define security policies to each segment. It makes sure that devices can access only the resources and applications they should and isolates segments when threats are detected to avoid the spread of attacks. • Advanced security through support for Advanced Encryption Standard (AES)-256 with the powerful MACsec 256-bit encryption algorithm available on all models. • Hardware-anchored Secure Boot and Secure Unique Device Identification (SUDI) support for plug and play, to verify the identity of the hardware and software.
Next-generation switching features and innovations	• Same software image as the Cisco Catalyst IE3x00 Rugged Series, for access to Cisco's latest innovations in switching. • Available with 8, 16, or 24 Fast Ethernet (M12 D-coded) ports or Gigabit Ethernet (M12 X-coded) ports.
Advanced management	• Easy configuration and monitoring through user-friendly WebUI that reduces cost of deployment and eliminates the need for complex emulation programs • Centralized infrastructure management with template-based configuration, network automation and assurance using Cisco Catalyst Center • Cisco's AI Troubleshooting agentic system detects and diagnoses network issues, and helps non expert users solve them faster
IOx Application Hosting	• Optional Cisco Cyber Vision for cyber visibility in the industrial environment and zero trust remote access to OT assets
Advanced Data plane features	• Parallel Redundancy Protocol (PRP) [1] • Advanced security with SGT/SGACL
IPv6 Ready Logo - IPv6 Ready Logo Certified	• IPv6 Ready Logo Certified

[1] Parallel Redundancy Protocol (PRP) is available on select ports only (1/1 - 1/4). Single instance of PRP is supported.

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Other product highlights

- Swap Drive zero-configuration replacement helps ensure fast recovery.
- Precision Time Protocol (PTP, IEEE 1588v2) provides accurate clock synchronization with sub-microsecond accuracy.
- Support for model-driven programmability, including NETCONF, RESTCONF, and YANG.
- Alarm I/O for monitoring and signaling to external equipment.
- Single power source (mini-change connector) for switch operation.

Platform support

Table 2. Product feature set

Product family	Platforms supported	Default IOS-XE feature set	Upgradeable to
IE3400	IE-3400H-8FT-E IE-3400H-16FT-E IE-3400H-24FT -E IE-3400H-8T-E IE-3400H-16T-E IE-3400H-24T-E	Network Essentials	Network Advantage
IE3400	IE-3400H-8FT-A IE-3400H-16FT-A IE-3400H-24FT -A IE-3400H-8T-A IE-3400H-16T-A IE-3400H-24T-A	Network Advantage	N/A

Table 3. Hardware configurations

Product ID	Total M12 ports	10/100 Fast Ethernet (D-code) ports	10/100/1000 Gigabit Ethernet (X-code) ports
IE-3400H-8FT-E	8	8	
IE-3400H-8FT-A	8	8	
IE-3400H-8T-E	8		8
IE-3400H-8T-A	8		8
IE-3400H-16FT-E	16	16	
IE-3400H-16FT-A	16	16	
IE-3400H-16T-E	16		16

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Product ID	Total M12 ports	10/100 Fast Ethernet (D-code) ports	10/100/1000 Gigabit Ethernet (X-code) ports
IE-3400H-16T-A	16		16
IE-3400H-24FT-E	24	24	
IE-3400H-24FT-A	24	24	
IE-3400H-24T-E	24		24
IE-3400H-24T-A	24		24

Table 4. Hardware specifications

Hardware specifications	IE-3400H-8FT	IE-3400H-8T	IE-3400H-16FT	IE-3400H-16T	IE-3400H-24FT	IE-3400H-24T
Removable storage	SD card[1]	SD card[1]	SD card[1]	SD card[1]	SD card[1]	SD card[1]
Alarm[2, 3]	1 alarm output relay, 1 alarm input	1 alarm output relay, 1 alarm input	1 alarm output relay, 1 alarm input	1 alarm output relay, 1 alarm input	1 alarm output relay, 1 alarm input	1 alarm output relay, 1 alarm input
Console ports[2]	1	1	1	1	1	1
Power input	Mini-change, (single power source)	Mini-change, (single power source)	Mini-change, (single power source)	Mini-change, (single power source)	Mini-change, (single power source)	Mini-change,(single power source)

[1] The SD card is optional and is not shipped by default with the switch.

[2] Using an M12 A-coded 5-pin connector.

[3] Relay max. rating: 24VDC at 1A, 48VDC at 0.5A.

Table 5. Physical configurations

Physical specifications	IE-3400H-8FT	IE-3400H-8T	IE-3400H-16FT	IE-3400H-16T	IE-3400H-24FT	IE-3400H-24T
Dimensions (H x W x D)	9.58 x 7.90 x 3.15 in. 24.33 x 20.07 x 8.00 cm	9.58 x 7.90 x 3.15 in. 24.33 x 20.07 x 8.00 cm	9.58 x 10.90 x 3.15 in. 24.33 x 27.69 x 8.00 cm	9.58 x 10.90 x 3.15 in. 24.33 x 27.69 x 8.00 cm	9.58 x 13.90 x 3.15 in. 24.33 x 35.31 x 8.00 cm	9.58 x 13.90 x 3.15 in. 24.33 x 35.31 x 8.00 cm
Weight (including mounting bracket)	8.45 lb 3.83 kg	8.45 lb 3.83 kg	11.25 lb 5.10 kg	11.25 lb 5.10 kg	13.90 lb 6.30 kg	13.90 lb 6.30 kg
Mounting	Wall mount	Wall mount	Wall mount	Wall mount	Wall mount	Wall mount

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Table 6. Performance and scalability features

Resource	IE-3400H-8FT, IE-3400H-8T, IE-3400H-16FT, IE-3400H-16T, IE-3400H-24FT, IE-3400H-24T
Forwarding rate	Line rate for all ports for all packet sizes
Number of queues	8
Unicast MAC addresses	16000
IGMP multicast groups	1000
No. of Vlans	256
IPv4 Indirect routes[1]	3000
IPv6 Indirect routes[1]	512
Spanning Tree Protocol instances	128
Access Control Entries (PACLs)	3024
DRAM	4 GB
Flash (user accessible)	1.5 GB
SD card capacity[2]	4 GB, 16 GB
Jumbo Frames[3]	8996 bytes

[1] Supported with Network Advantage license

[2] The SD card is optional and is not shipped by default with the switch.

[3] Jumbo Frames are limited to 2000 bytes when using ERSPAN/DLR/PRP/HSR/SGT

Table 7. Power specifications

Power specifications	IE-3400H-8FT	IE-3400H-16FT	IE-3400H-24FT	IE-3400H-8T	IE-3400H-16T	IE-3400H-24T
Input voltage range (Absolute)	9.6 to 60VDC	9.6 to 60VDC	9.6 to 60VDC	9.6 to 60VDC	9.6 to 60VDC	9.6 to 60VDC
Input current @ (9.6V / 60V)	3.0A/0.51A	4.0A/0.65A	4.6A/0.75A	3.2A/0.54A	4.4A/0.71A	5.1A/0.83A
Power consumption @ (9.6V / 60V)	28.8W/30.6W	38.4W/39.0W	44.2W/45.0W	30.4W/32.2W	41.6W/42.3W	49.0W/49.8W

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Table 8. Power supply options

Product ID	Description
PWR-IE160W-67-DC=	IP67-rated PoE DC-DC power supply, Input:18V-60V Output: 54V, 3.1A max 160W

Table 9. Key Supported Software Feature (Network Essential)

Network Essentials License (Perpetual)	Features
Layer 2 switching	IEEE 802.1Q, 802.1w,802.1ab,802.1s, 802.3ad standard, NTP, UDLD, CDP, LLDP, unicast MAC filter, PAgP, LACP VTPv2, VTPv3, EtherChannel, Q-in-Q tunneling, voice VLAN, PVST+, MSTP, RSTP, Selective Q-in-Q, Layer 2 Tunneling
Multicast	IGMPv1, v2, v3 snooping, IGMP filtering, IGMP querier
Management	WebUI, MIB, SmartPort, SNMP, syslog, DHCP server, SPAN session, RSPAN, FSPAN, FRSPAN, Express setup, Delayless IPDT
Security	Port security, 802.1x, Dynamic Host Configuration Protocol (DHCP) snooping, dynamic ARP inspection, IP source guard, guest VLAN, MAC authentication bypass, 802.1x multidomain authentication, storm control - unicast, multicast, broadcast, SCP, SSH, SNMPv3, TACACS+, RADIUS server/client, MAC address notification, BPDU guard, Access Lists (PACL/RACL/VACL), SUDI 2099 (Secure Unique Device identifier), Full Flexible NetFlow (FNF), MACsec-128, FIPS 140-2
Quality of Service (QoS)	Ingress policing, rate limit, egress queuing/shaping, auto QoS
IPv6	IPv6 host support, SNMP over IPv6, HTTP/HTTP(s) over IPv6, SNMP over IPv6, Syslog over IPv6, DHCPv6 relay source, DHCPv6 bulk lease query (RFC 5460), IPv6 stateless Auto Config, SCP/SSH, Radius, TACACS+, NTP over IPv6, IPv6 VRF aware BGPv6, IPV6 ND cache expire, IPv6 support for TFTP, IPv6 DNS transport, IPv6 QoS, IPv6 FHS RA Guard, IPv6 FHS DHCPv6 Guard
Layer 3 routing	Inter-VLAN routing, Static routing
Industrial Ethernet	CIP Ethernet/IP, [3]IEEE 1588 PTP v2 (default and power), PROFINET
Redundancy	Resilient Ethernet Protocol (REP) ring, PROFINET-Multi Ring Protocol (MRP), REP Negotiated, Fast REP, REP Autodiscovery, REP ZTP Support, Parallel redundancy protocol (PRP)[2], PTP over PRP, High-Availability Seamless Redundancy (HSR-SAN), Device Level Ring (DLR), HSR-PRP Dual Redbox
Utility	Dying gasp, SCADA protocol classification - GOOSE messaging, MODBUS TCP/IP
Automation	YANG, NETCONF, RESTCONF
Industrial Management	Layer 2 switching with 1:1 switch Network Address Translation (L2NAT)[1]
IOx	Container (Native Docker), Cyber Vision

[1] Supported on select ports (1/1-1/2)

[2] Parallel Redundancy Protocol (PRP) is available on select ports only (1/1 - 1/4). Single instance of PRP is supported.

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Table 10. Key supported software features (Network Advantage License)*

Network Advantage License (Perpetual)	Features
IP routing Protocols	OSPF (IPv4 and IPv6), BGP (v4 and v6), ISIS (v4 and v6), RIP (v1 and v2), EIGRP (v4 and v6), Policy based routing (PBR), VRRP (v4 and v6), HSRP (v4 and v6), BFD Echo Mode for OSPFv3
Virtualization	Vrf-lite, VRF-Aware SGT
Security	MACsec-256, SGT/SGACL[1], Cisco TrustSec
IP Multicast	PIM sparse mode (PIM-SM), PIM dense mode (PIM-DM), MSDP, Multicast routing BSR (IPv4/IPv6), Auto RP (IPv4), Embedded RP (IPv6)

Table 11. Cisco Catalyst Center essentials and advantage package features

Features	Cisco Catalyst Center Essentials	Cisco Catalyst Center Advantage
Element Management Discovery, Topology, Inventory, software image management	Yes	Yes
Basic Assurance Health dashboard - Network, Client monitoring; switch and wired client health monitoring	Yes	Yes
Assurance and Analytics Compliance, Custom Reports, Device 360 and Client 360 -Display device and client connectivity for granular troubleshooting	No	Yes
Basic Automation Cisco Network Plug-and-Play application	Yes	Yes
Element Management Patch/SMU	No	Yes
Software-defined Access Policy based automation and assurance for wired clients, the IE3400 Heavy Duty Series can function as an SD-Access Policy extended node in a REP ring Workflow	No	Yes

Cisco Catalyst Center licenses for Industrial Ethernet switches are add-on/optional and not mandatory, and need to be purchased separately. These do not include Network Tier features. Network Advantage License is a mandatory requirement on the Switch for Cisco Catalyst Center Advantage License.

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Table 12. Compliance specifications[1]

Description	Specification
ITE safety standards/ certifications	UL/cUL Listing to UL/CSA 60950-1 UL/cUL Listing to UL/CSA 62368-1 CB to IEC 60950-1 with all country national deviations CB to IEC 62368-1 with all country national deviations
ICE and manufacturing safety standards/ certifications	UL/cUL Listing to UL/CSA 61010-2-201
Water and dust protection standards/ratings	IEC 60529: IP66/IP67 UL 50E, Type 4X rating UL/CSA/EN/IEC 60950-22 outdoor rating
Industrial Automation Control System	IEC 62443-4-1 IEC 62443-4-2
EMC emissions and immunity compliance	Emissions (Class A): FCC 47 CFR Part 15 subpart B ICES-003 EN 55011 EN 55032/ CISPR 32 AS/NZS CISPR 32 CNS13438 Immunity: EN55024/CISPR 24 AS/NZS CISPR 24
Shock and vibration	IEC 60068-2-6 Vibration: IEC 60068-2-6, IEC 255 21.1 Class 1 Vibration Test IEC 60068-2-27 (Shock) IEC 60068-2-31 (Shock) IEC 60068-2-32 (Shock) IEC 60068-2-64 (Vibration)
Industry standards	EN 61000-6-1 Immunity standards for light industrial ENV EN 61000-6-2 Immunity standards for industrial ENV EN 61000-6-4- Emission standard industrial ENV EN 61326-1 Industrial control ODVA Industrial Ethernet/IP PROFINET certification AREMA C and S section 11, 19

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Description	Specification
Automotive	UN ECE R10[2] E-Mark certification[2]
Railway	EN50155:2021 (clauses 13.4.1-6, 13.4.9, 13.4.10, 13.4.13)[2] EN50121-3-2:2021[2] EN50121-4:2021[2] EN61373:2010[2] EN50124-1:2017[2] AREMA C&S Manual: 2022[2] EN50153:2020 Clause 8.3[2] EN45545-2[3]
Corrosive testing	IEC 60068-2-52 Salt mist testing IEC 60068-2-60 Flowing mixed gas corrosion
Humidity	IEC 60068 -2-3 IEC 60068-2-30 Relative humidity: 5% to 95% noncondensing
Operating temperature, environment, reliability	-40° C to +75° C (-40F to 167F) (with airflow) with 200 LFM airflow -40° C to +70° C (-40F to 158F) with 40 LFM airflow -40° C to + 60° C (-40F to 140F) with 0 LFM airflow -40° C to +85° C (-40F to 185F) (type tested to +85° C for 16 hours) IEC 60068-2-1 IEC 60068-2-2 Altitude: Up to 13,800 feet or 4,200 meters
Storage temperature	-40° C to +85° C (-40F to 185F) IEC 60068-2-14 Altitude: Up to 13,800 feet (4,200 m)

[1] For more detailed information on safety approved power/thermal ratings refer the Hardware Installation Guide.

[2] Certifications are only applicable to Gigabit Ethernet SKUs.

[3] Applicable to IE-3400H-8T-E, IE-3400H-8T-A, IE-3400H-16T-E, IE-3400H-16T-A, IE-3400H-24T-E, IE-3400H-24T-A.

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Table 13. Mean Time Between Failures (MTBF) information

Product detail	MTBF (in hours)
IE-3400H-8FT	566,908
IE-3400H-16FT	489,458
IE-3400H-24FT	439,475
IE-3400H-8T	566,908
IE-3400H-16T	489,458
IE-3400H-24T	439,475

Table 14. Industry standards

Descriptions	Specifications	
IEEE standards	IEEE 802.1D MAC Bridges, STP	IEEE 1588v2 PTP
	IEEE 802.1p Layer 2 COS prioritization	IEEE 802.3x full duplex on 10BASE-T
	IEEE 802.1q VLAN	IEEE 802.3 10BASE-T specification
	IEEE 802.1s MSTP	IEEE 802.3u 100BASE-TX specification
	IEEE 802.1w RSTP	IEEE 802.3ab 1000BASE-T specification
	IEEE 802.1X Port Access Authentication	
	IEEE 802.1AB LLDP	
	IEEE 802.3ad Link Aggregation (LACP)	
RFC compliance	RFC 768: UDP	RFC 1492: TACACS+
	RFC 783: TFTP	RFC 1493: Bridge MIB Objects
	RFC 791: IPv4 protocol	RFC 1534: DHCP and BOOTP interoperation
	RFC 792: ICMP	RFC 1542: Bootstrap Protocol
	RFC 793: TCP	RFC 1643: Ethernet Interface MIB
	RFC 826: ARP	RFC 1757: RMON
	RFC 854: Telnet	RFC 2068: HTTP
	RFC 959: FTP	RFC 2131, 2132: DHCP
	RFC 1157: SNMPv1	RFC 2236: IGMP v2
	RFC 1901, 1902-1907 SNMPv2	RFC 3376: IGMP v3
	RFC 2273-2275: SNMPv3	RFC 2474: DiffServ Precedence
	RFC 2571: SNMP Management	RFC 3046: DHCP Relay Agent Information Option
	RFC 1166: IP Addresses	RFC 3580: 802.1x RADIUS
	RFC 1256: ICMP Router Discovery	RFC 4250-4252 SSH Protocol
	RFC 1305: NTP	

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Descriptions	Specifications	
SNMP MIB objects	802.1X MIB	CISCO-IF-EXTENSION-MIB
	CISCO-DHCP-SNOOPING-MIB	CISCO-IMAGE-MIB
	CISCO-UDLDP-MIB	CISCO-MEMORY-POOL-MIB
	CISCO-ENVMON-MIB	CISCO-PING-MIB
	CISCO-PRIVATE-VLAN-MIB	SNMP-TARGET-EXT-MIB
	CISCO-PAE-MIB	IF_MIB
	Cisco-Port-QoS-MIB	ENTITY-MIB
	CISCO-ERR-DISABLE-MIB	LLDP-EXT-PNO-MIB
	CISCO- PROCESS-MIB	NOTIFICATION-LOG-MIB
	LLDP-MIB	OLD-CISCO-CPU-MIB
	CiscoMACNotification-MIB	ETHERLIKE-MIB
	CISCO-CONFIG-COPY-MIB	OLD-CISCO-SYSTEM-MIB
	LLDP-MED-MIB	OLD-CISCO-MEMORY-MIB
	Bridge-MIB	RMON-MIB
	CISCO-CAR-MIB	SNMP-COMMUNITY-MIB
	CISCO-LAG-MIB	SNMP-FRAMEWORK-MIB
	CISCO-SYSLOG-MIB	SNMP-PROXY-MIB
	CISCO-FTP-CLIENT-MIB	SNMP-MPD-MIB
	CISCO-VLAN-IFTABLE-RELATIONSHIP-MIB	SNMP-NOTIFICATION-MIB
	CISCO-VLAN-MEMBERSHIP-MIB	SNMP-TARGET-MIB
	Cisco-REP-MIB	SNMP-USM-MIB
	CISCO-PORT-STORM-CONTROL-MIB	CISCO-DATACOLLECTION-MIB
	CISCO-CDP-MIB	CISCO-CABLE-DIAG-MIB
	CISCO-IP-STAT-MIB	CISCO -PORT-SECURITY-MIB
	CISCO-LICENSE-MGMT-MIB	BULK_FILE_MIB
	CISCO-STP-EXTN-MIB	NAC-NAD-MIB
	CISCO-VTP-MIB	CISCO-ENTITY-ALARM-MIB
	IEEE8023-LAG-MIB	SNMP-VIEW-BASED-ACM-MIB
	SMON-MIB	CISCO-MAC-AUTH-BYPASS-MIB
	CISCO-ACCESS-ENVMON-MIB	CISCO-AUTH-FRAMEWORK-MIB
	CISCO-CALLHOME-MIB	CISCO-BRIDGE-Ext-MIB
	CISCO-CONFIG-MAN-MIB	SNMPv2-MIB
	CISCO-FLASH-MIB	CISCO-ENTITY-VENDORTYPE-OID-MIB
	CISCO-ENTITY-SENSOR-MIB	CISCO-PRODUCTS-MIB
	IP-MIB	IP-FORWARD-MIB
	CISCO-PAGP-MIB	BGP-CISCO-BGP-MIBv2

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Ordering information

AI Troubleshooting for Industrial Networks is currently offered at no charge for a 3-year term with the Cisco Catalyst IE3400 Heavy Duty Series. Refer to Cisco General Terms and Offer Supplemental Terms for more details.

Table 15 lists the ordering information for fixed system, expansion modules and memory that are commonly used with the Cisco IE3400 Rugged Series switches.

Table 15. Ordering information

Product ID	Description
IE-3400H-8FT-E	Catalyst IE3400 Heavy Duty w/ 8 FE M12 interfaces, IP67, Network Essentials
IE-3400H-16FT-E	Catalyst IE3400 Heavy Duty w/ 16 FE M12 interfaces, IP67, Network Essentials
IE-3400H-24FT-E	Catalyst IE3400 Heavy Duty w/ 24 FE M12 interfaces, IP67, Network Essentials
IE-3400H-8FT-A	Catalyst IE3400 Heavy Duty w/ 8 FE M12 interfaces, IP67, Network Advantage
IE-3400H-16FT-A	Catalyst IE3400 Heavy Duty w/ 16 FE M12 interfaces, IP67, Network Advantage
IE-3400H-24FT-A	Catalyst IE3400 Heavy Duty w/ 24 FE M12 interfaces, IP67, Network Advantage
IE-3400H-8T-E	Catalyst IE3400 Heavy Duty w/ 8 GE M12 interfaces, IP67, Network Essentials
IE-3400H-16T-E	Catalyst IE3400 Heavy Duty w/ 16 GE M12 interfaces, IP67, Network Essentials
IE-3400H-24T-E	Catalyst IE3400 Heavy Duty w/ 24 GE M12 interfaces, IP67, Network Essentials
IE-3400H-8T-A	Catalyst IE3400 Heavy Duty w/ 8 GE M12 interfaces, IP67, Network Advantage
IE-3400H-16T-A	Catalyst IE3400 Heavy Duty w/ 16 GE M12 interfaces, IP67, Network Advantage
IE-3400H-24T-A	Catalyst IE3400 Heavy Duty w/ 24 GE M12 interfaces, IP67, Network Advantage
PWR-IE160W-67-DC=	IP67-rated DC-DC power supply
SD-IE-16GB	IE 16GB SD Memory card
CAB-CONSOLE-M12=	Console Cable 6ft with M12 and DB9F for Cisco Catalyst IE3400 Heavy Duty Series Switch
IE3400H-NW-A=	Cisco Network Advantage license for IE3400 Heavy Duty Series
IE3400H-DNA-E	Cisco Catalyst Center Essentials license for IE3400 Heavy Duty Series
IE3400H-DNA-E-3Y	IE 3400 Cisco Catalyst Center Essentials, 3 Year Term license
IE3400H-DNA-E-5Y	IE 3400 Cisco Catalyst Center Essentials, 5 Year Term license
IE3400H-DNA-E-7Y	IE 3400 Cisco Catalyst Center Essentials, 7 Year Term license
IE3400H-DNA-A	Cisco Catalyst Center Advantage license for IE3400 Heavy Duty Series
IE3400H-DNA-A-3Y	IE 3400 Cisco Catalyst Center Advantage, 3 Year Term license

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Product ID	Description
IE3400H-DNA-A-5Y	IE 3400 Cisco Catalyst Center Advantage, 5 Year Term license
IE3400H-DNA-A-7Y	IE 3400 Cisco Catalyst Center Advantage, 7 Year Term license
LIC-MRP-MGR-XE=	MRP Ring Manager License
LIC-MRP-CLIENT-XE=	MRP Ring Client License

* MRP Feature Licenses are not required from release IOS XE 17.7.1 onwards. Please refer to the IOS XE 17.7.1 Release Notes.

Connectors and Cabling

Table 16. Connectors and Cabling

Type	Options
Data Cables	• Copper 100Base-T M12 D coded 4-Pin connector • Copper GE M12 X coded-8-Pin- connector
Alarm Cable	• M12 A-Coded 5-Pin connector
Console Cable	• M12 A Coded 5-Pin connector
Power Supply Cables	• Power cord for IP67 switch power input, Mini-Change A-Size single-ended cord set, 4 poles, female to pigtail, 16 AWG PVC cable. Molex part#130006-0737 https://www.molex.com/customer.html?supplierPN=1300060737 • Power cord, IP67 Power supply output to IP67 switch input: Mini-Change A-size double-Ended Cordset, 4 poles male to female. 16 AWG, TPE cable. Molex Part #130010-0863 https://www.molex.com/customer.html?supplierPN=1300100863 • Power cable for AC-DC power source, Mini-change A-size single-ended cord set, Power cord, IP67 AC power supply input, 3 pins, female insert on one end to pigtail, 16 AWG PVC cable, Molex part# 130006-2419 https://www.molex.com/customer.html?supplierPN=1300062419 https://www.molex.com/customer.html?supplierPN=1300060223 • Power cord, IP67 DC power supply input: 2 pole female power cord to open for input DC connector https://www.molex.com/customer.html?supplierPN=1300060091

Warranty information

There is a 5-year limited hardware warranty on all Cisco Catalyst IE3400 Heavy Duty Series switches. For more details, visit https://www.cisco.com/c/en/us/products/warranties/warranty-doc-c99-740591.html.

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Document history

New or Revised Topic	Described In	Date
Added AI Troubleshooting. Updated mentions of Cyber Vision.	Overview, Table 1, Ordering information	September 23, 2026
Supported SDCard capacity, Feature List, SDCard ordering information	Table 6, Table 9, Table 15	February 13, 2025
HSR-PRP Dual Redbox addition	Table 9	March 29, 2024
DNA name change to Catalyst Center	Entire datasheet	October 19, 2023
Updated AREMA	Table 11	December 19, 2022
Added new product numbers to hardware configurations and updated software features. Added Gigabit Ethernet IE3400H ordering information	Table 3, 6, 9, 10, 14	January 24, 2020
Minor updates to improve readability and added/updated features.	Table 2, 3, 6 and 9	February 07, 2020

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