

Cisco Catalyst IE3300 Rugged Series

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The Cisco Catalyst® IE3300 Rugged Series ushers in mainstream adoption of Gigabit Ethernet connectivity in a compact, form-factor, modular switch that is purpose-built for a wide variety of extended enterprise and industrial applications.

Product overview

Cisco Catalyst IE3300 Rugged Series switches deliver high-speed Gigabit Ethernet connectivity in a compact form factor, and are designed for a wide range of industrial applications where hardened products are required. The modular design of the Cisco Catalyst IE3300 Rugged Series offers the flexibility to expand to up to 26 ports of Gigabit Ethernet with a range of expansion module options. The platform is built to withstand harsh environments in manufacturing, energy, transportation, mining, smart cities, and oil and gas. The IE3300 platform is also ideal for extended enterprise deployments in outdoor spaces, warehouses, and distribution centers.

These switches run 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 Cisco Catalyst IE3300 Rugged Series can be managed with powerful management tools such as Cisco DNA Center and Cisco Industrial Network Director, and can be easily set up with a completely redesigned user-friendly modern GUI tool called WebUI. The platform also supports Full Flexible NetFlow (FNF) for real-time visibility into traffic patterns and threat analysis with Cisco Stealthwatch®.

The IE3300 series (with expansion module) supports power budget of up to 360W for PoE/PoE+, shared across 24 ports, and is ideal for connecting PoE-powered end devices such as IP cameras, phones, wireless access points, sensors, and more.



Figure 1.

Features and benefits

Table 1. IE3300 features and benefits

Feature	Benefit
Robust industrial design	<ul style="list-style-type: none"> • Built for harsh environments and temperature ranges (-40° C to +75° C) • Fanless, convection-cooled with no moving parts for extended durability • Hardened for vibration, shock and surge, and electrical noise immunity • Complies with multi-industry specifications for automation, ITS, and substation environments • Improves uptime, performance, and safety of industrial systems and equipment • Covers a wide range of Power over Ethernet (PoE) application requirements • Alarm I/O for monitoring and signaling to external equipment
Full Gigabit Ethernet interfaces	<ul style="list-style-type: none"> • Provides secure access for new high-speed applications in the industrial space • Packs up to 10 ports of GE - 2x1 Gigabit Small Form-Factor Pluggable (SFP) uplinks plus 8x1 Gigabit copper RJ45 downlink ports (with PoE+ or non PoE) in a small form-factor base system • Expandable to 26 ports of GE by attaching one of 7 compatible modules (copper, PoE, fiber options) • Connects high-speed wireless access points (802.11n, 802.11ac) • Enables High-Definition (HD) IP cameras and Programmable Logic Controllers (PLC) • Delivers multiple rings and redundant ring topologies for new network configurations • Extends geographical scalability where longer-distance connectivity is required
High-density industrial Power over Ethernet (PoE)	<ul style="list-style-type: none"> • Supports up to 24 PoE/PoE+ ports [Power budget - 360W] • Controls costs by limiting wiring, distribution panels, and circuit breakers • Reduces equipment needs, thus requiring less space and reducing heat dissipation • Enables ready-to-use PoE devices, such as IP phones, cameras, and wireless access points
User-friendly GUI, called WebUI	<ul style="list-style-type: none"> • Allows for easy configuration and monitoring • Eliminates the need for more complex, terminal emulation programs • Reduces the cost of deployment
SwapDrive for zero-configuration replacement	<ul style="list-style-type: none"> • True zero-configuration and simple switch replacement in the event of a failure • No networking expertise required • Helps ensure fast recovery
Full Flexible NetFlow (FNF)	<ul style="list-style-type: none"> • Provides enhanced flow and threat visibility • Enables optimization of the network infrastructure, reduces operation costs, and improves capacity planning and security incident detection

Products overview

Table 2. Product feature sets

Product family	Platforms supported	Cisco IOS Software image (feature sets) supported
IE3000	IE3300	Network Essentials ¹ , Network Advantage ¹

¹ The Hardware PID with “-E” suffix is Network Essentials and with “-A” suffix is Network Advantage.

Product specifications

Table 3 highlights the hardware configuration for Cisco Catalyst IE3300 Rugged Series switches and the supported modules with these switches.

Table 3. IE3300 Hardware configurations (incl. IE3300 modules)

Product number*	Total ports	10/100/1000 RJ45 Copper ports	100/1000 SFP ports	Software license(Default)	PoE/ PoE (+) budget
IE-3300-8T2S-E	10	8	2	Network Essentials	N.A.
IE-3300-8T2S-A	10	8	2	Network Advantage	N.A.
IE-3300-8P2S-E	10	8	2	Network Essentials	240W (base), 360W (with module)
IE-3300-8P2S-A	10	8	2	Network Advantage	240W (base), 360W (with module)
IEM-3300-8P=	8	8	N.A.	N.A.	Supported with IE3300 PoE base modules to provide a total POE budget of 360W
IEM-3300-16P=	16	16	N.A.	N.A.	Supported with IE3300 PoE base modules to provide a total POE budget of 360W
IEM-3300-8S=	8	N.A.	8	N.A.	N.A.
IEM-3300-8T=	8	8	N.A.	N.A.	N.A.
IEM-3300-16T=	16	16	N.A.	N.A.	N.A.
IEM-3300-6T2S=	8	6	2	N.A.	N.A.
IEM-3300-14T2S=	16	14	2	N.A.	N.A.

*PoE modules can only be plugged with PoE base switch. IE3300 expansion modules can also be plugged with IE3400 base switch. However, this combination prevents support for advanced security feature such as SGT/SGACL on the IE3400 base switch.

Table 4 highlights the hardware specifications for Cisco Catalyst IE3300 Rugged Series switches.

Table 4. IE3300 hardware specifications

Hardware specification	Cisco IE-3300-8T2S-E / -A	Cisco IE-3300-8P2S-E / -A
PoE power budget	Not applicable	360W ¹ (including expansion module)
Removable storage	USB ² , SD card ²	USB ² , SD card ²
Alarms	2 alarms in, 1 alarm out	2 alarms in, 1 alarm out

Hardware specification	Cisco IE-3300-8T2S-E / -A	Cisco IE-3300-8P2S-E / -A
Console ports	1 RS-232 (via RJ-45), 1 USB Mini Type B	1 RS-232 (via RJ-45), 1 USB Mini Type B
Power inputs	Dual DC power inputs	Dual DC power inputs

¹ In order to achieve 360W power budget, the minimum power requirements as specified in Table 8 for the switch need to be considered when selecting the power supply.

² The SD card and USB are optional and are not shipped by default with the switch.



IEM-3300-8T= IEM-3300-8S= IEM-3300-8P= IEM-3300-6T2S= IEM-3300-14T2S= IEM-3300-16T= IEM-3300-16P=

Figure 2.
Expansion modules

Table 5 highlights the hardware configuration for Cisco Catalyst IE3300 Rugged Series modules.

Table 5. Hardware configuration for Cisco Catalyst IE3300 Rugged Series modules

Descriptions	Total ports on expansion module	Copper (RJ45)	PoE/PoE+	SFP	Total system ports (including expansion module)
IEM-3300-8T=	8	8	-	-	18
IEM-3300-8P=	8	-	8	-	18
IEM-3300-8S=	8	-	-	8	18
IEM-3300-16T=	16	16	-	-	26
IEM-3300-16P=	16	-	16	-	26
IEM-3300-6T2S=	8	6	-	2	18
IEM-3300-14T2S=	16	14	-	2	26

Table 6 highlights the physical configuration for Cisco Catalyst IE3300 Rugged Series switches and modules.

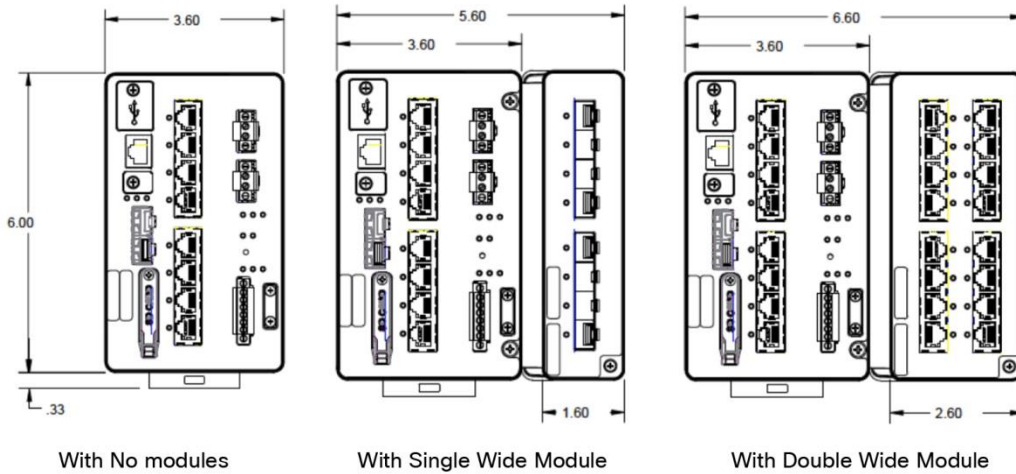
Table 6. IE3300 physical configurations

PID details	Dimensions (H x W x D)	Weight	Mounting
IE-3300-8T2S-E	6 in. X 3.6 in. X 5.3 in.	3.8 lbs	DIN rail
IE-3300-8T2S-A	6 in. X 3.6 in. X 5.3 in.	3.8 lbs	DIN rail
IE-3300-8P2S-E	6 in. X 3.6 in. X 5.3 in.	3.8 lbs	DIN rail

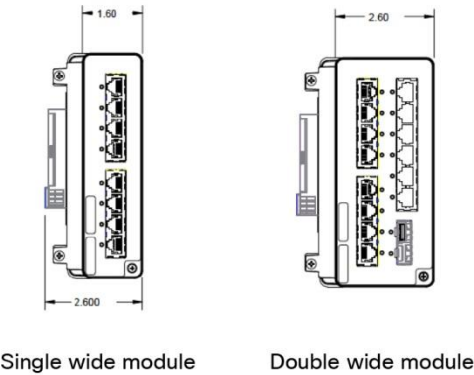
PID details	Dimensions (H x W x D)	Weight	Mounting
IE-3300-8P2S-A	6 in. X 3.6 in. X 5.3 in.	3.8 lbs	DIN rail
IEM-3300-8T=	6 in. X 2.4 in. X 5.3 in.	2.0 lbs	DIN rail
IEM-3300-8P=	6 in. X 2.4 in. X 5.3 in.	2.0 lbs	DIN rail
IEM-3300-8S=	6 in. X 2.4 in. X 5.3 in.	2.0 lbs	DIN rail
IEM-3300-16T=	6 in. X 3.4 in. X 5.3 in.	2.7 lbs	DIN rail
IEM-3300-16P=	6 in. X 3.4 in. X 5.3 in.	2.7 lbs	DIN rail
IEM-3300-6T2S=	6 in. X 2.4 in. X 5.3 in.	2.0 lbs	DIN rail
IEM-3300-14T2S=	6 in. X 3.4 in. X 5.3 in.	2.7 lbs	DIN rail

System dimensions

Front view



Module dimensions - Front view



Top view

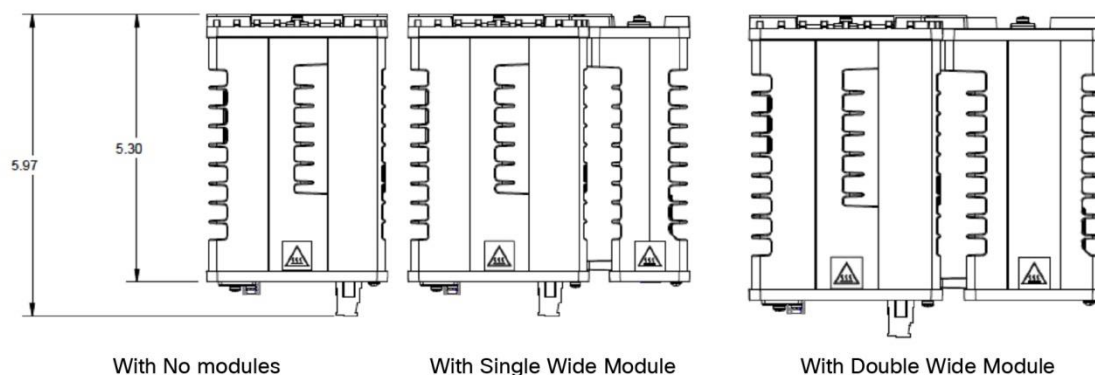


Table 7 highlights the performance and scalability features for Cisco Catalyst IE3300 Rugged Series switches.

Table 7. IE3300 performance and scalability features

Features	Cisco IE-3300-8T2S-E / -A	Cisco IE-3300-8P2S-E / -A
Forwarding rate	Line rate for all ports and all packet sizes	Line rate for all ports and all packet sizes
Number of queues	8	8
Unicast MAC addresses	8K	8K
Internet Group Management Protocol (IGMP) multicast groups	1K	1K
No. of VLANs	256	256
IPv4 Indirect routes¹	2000	2000
IPv6 Indirect routes¹	512	512
Spanning Tree Protocol (STP) instances	128	128
Access Control Lists (PACL/VAACL/RACL)	1.5K	1.5K
DRAM	2 GB	2 GB
Flash [User Accessible]	1.5 GB	1.5 GB
SD card capacity²	4 GB	4 GB

¹ Supported with -A SKUs or -E SKUs (with Network Advantage license)

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

Table 8 highlights the power specifications for Cisco Catalyst IE3300 Rugged Series switches.

Table 8. IE3300 power specifications

Features	Cisco IE-3300-8T2S-E / -A	Cisco IE-3300-8P2S-E / -A
Input voltage range	Redundant DC input voltage: 9.6 to 60VDC	Redundant DC input voltage: 9.6 to 60VDC 48VDC is required for PoE and 54VDC is required for PoE+
Maximum Input current	3.8A	10.5A
Power consumption¹	23W	32W

¹ Power consumption for non PoE supported model is measured at 12V and for the PoE supported model is measured at 54V. Power consumption does not include PoE power.

Table 9 highlights the power specifications for supported expansion modules in Cisco Catalyst IE3300 Rugged Series switches.

Table 9. IEM3300 modules power consumption

Product ID detail	Power Consumption ¹
IEM-3300-8T=	6W
IEM-3300-8P=	14W
IEM-3300-8S=	19W
IEM-3300-16T=	12W
IEM-3300-16P=	21W
IEM-3300-6T2S=	9W
IEM-3300-14T2S=	16W

¹ Power consumption for non PoE supported model is measured at 12V and for the PoE supported model is measured at 54V.

Table 10 highlights the power supply options for Cisco Catalyst IE3300 Rugged Series switches.

Table 10. Power supply options

Product Number	Wattage	Rated nominal input operating range	PoE/PoE+ support ¹	More Details
PWR-IE50W-AC=	50W	AC 100-240V/1.25A 50-60Hz or DC 125-250V/1.25A	No	Click here for more details on these DIN Rail power supplies
PWR-IE50W-AC-IEC=	50W	AC 90-264V	No	
PWR-IE50W-AC-L= ²	50W	AC 100-240V/1.2A 50-60Hz	No	

Product Number	Wattage	Rated nominal input operating range	PoE/PoE+ support ¹	More Details
PWR-IE65W-PC-AC=	65W	AC 100-240V / 1.4A 50-60Hz or DC 125-250V / 1.0A	Yes	
PWR-IE65W-PC-DC=	65W	DC 24-48VDC / 4.5A	Yes	
PWR-IE170W-PC-AC=	170W	AC 100-240V / 2.3A 50-60Hz or DC 125-250V / 2.1A	Yes	
PWR-IE170W-PC-DC=	170W	DC 12-54VDC / 2.3A	Yes	
PWR-IE240W-PCAC-L= ²	240W	AC 100-240V/3.5A 50-60Hz	Yes	
PWR-IE480W-PCAC-L= ²	480W	AC 100-240V/6.0A 50-60Hz	Yes	

¹ The entire power budget for the switch and PoE ports must stay within the power supply wattage.

² The power supplies are not certified for smart grid and hazardous locations. These power supplies are IP20 rated.

Table 11 and 12 highlight the supported software features for Cisco Catalyst IE3300 Rugged Series switches.

Table 11. Key supported software features (Network Essentials License)

Network Essentials License (Perpetual)	Features
Layer 2 switching	IEEE 802.1, 802.3 standard, NTP, UDLD, CDP, LLDP, unicast MAC filter, PAgP, LACP VTPv2, VTPv3, EtherChannel, voice VLAN, PVST+, MSTP, and RSTP
Multicast	IGMPv1, v2, v3 snooping, IGMP filtering, IGMP querier
Management	WebUI, MIB, SmartPort, SNMP, syslog, DHCP server, SPAN session, RSPAN, Express setup, NETCONF, RESTCONF
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, VACL, RAACL), SUDI 2099 (Secure Unique Device identifier), Full Flexible NetFlow (FNF), MACsec-128
Quality of Service (QoS)	Ingress policing, rate limit, egress queuing and shaping, auto QoS
IPv6	IPv6 host support, SNMP over IPv6, HTTP/HTTP(s) 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
Layer 3 routing	Inter-VLAN routing, Static routing
Industrial Ethernet	CIP Ethernet/IP, IEEE 1588 PTP v2 (default and power), PROFINET
Redundancy	Resilient Ethernet Protocol (REP) ring, PROFINET-Media Redundancy Protocol (MRP), REP Preferred, Fast REP

Network Essentials License (Perpetual)	Features
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

¹ Supported on Uplink ports

Table 12. Key supported software features (Network Advantage License)

Network Advantage License (Perpetual)	Features
IP routing Protocols	OSPF (v4 and v6), BGP (v4 and v6), RIP (V1 and V2), ISIS (v4 and v6), EIGRP (v4 and v6)
Virtualization	Vrf-lite
Security	MACsec-256
IP Multicast	PIM sparse mode (PIM-SM), PIM dense mode (PIM-DM), and PIM sparse-dense mode

Table 13 highlights the details on Cisco DNA Essentials and Cisco DNA Advantage License for Cisco Catalyst IE3300 Rugged Series switches.

Table 13. Cisco IE3300 Cisco DNA Essentials and Cisco DNA Advantage license

Feature	Description	Cisco DNA Essentials	Cisco DNA Advantage
Cisco DNA Center	Discovery, Topology, Inventory, software image management	YES	YES
Visibility	Cisco DNA assurance, Device 360	YES	YES
Day-zero network bring-up automation	Cisco Network Plug-and-Play application	YES	YES
Software-define Access	Policy based automation, IE3300 can function as an SD-Access extended node	N.A.	YES

Cisco DNA licenses for Industrial Ethernet switches are add-on/optional and not mandatory. These do not include Network Tier features.

Table 14 highlights the compliance specifications for Cisco Catalyst IE3300 Rugged Series switches.

Table 14. Compliance Specifications¹

Descriptions	Specifications
Electromagnetic emissions	FCC 47 CFR Part 15 subpart B Class A EN 55032/CISPR 32 Class A VCCI Class A

Descriptions	Specifications
	AS/NZS CISPR 32 Class A CISPR 11 Class A ICES 003 Class A CNS 13438 Class A KN 32 Class A EN 300 386
Electromagnetic immunity	CISPR 24 EN 55024 KN 35 EN 61000-4-2 Electro Static Discharge (air - 15kV, contact - 8kV) EN 61000-4-3 Radiated RF (10V/m UTP, 20V/m STP) EN 61000-4-4 Electromagnetic Fast Transients (4kV) EN 61000-4-5 Surge (2KV/1KV Power, 4KV STP) EN 61000-4-6 Conducted RF (10Vrms UTP) EN 61000-4-8 Power Frequency Magnetic Field (1000A/m) EN 61000-4-10 Pulsed Magnetic Field (30 A/m) EN 61000-4-16 Conducted CM Disturbances (30V, Cont/ 300V, 1 sec) EN 61000-4-17 Ripple Immunity DC Power (10%) EN 61000-4-18 Damped Oscillatory Wave (2.5kV, 1MHz) EN-61000-4-29 DC Voltage Dips and Interruptions
Industry standards	EN 61000-6-2 Industrial Immunity EN 61000-6-4 Industrial Emissions EN 61000-6-1 Light Industrial Immunity EN 61326-1 Measurement, Control and Laboratory Equipment IEEE 1613 Electric Power Stations Communications Networking ² EN/IEC 61850-3 Electric Substations Communications Networking ² EN50121-4 Railway - Signaling and Telecommunications Apparatus ODVA Industrial EtherNet/IP IP30
Safety standards and certifications	Information Technology Equipment: UL/CSA 60950-1,CB to IEC 60950-1 with all country deviations UL/CSA 62368-1, CB to IEC 62368-1 with all country deviations ² Industrial floor (control equipment): UL/CSA 61010-2-201 CB report and certificate to IEC/EN 61010-2-201 Hazardous locations:

Descriptions	Specifications
	UL121201(Class I, Div 2, groups A-D) CSA 213 (Class I, Div 2, groups A-D) UL/CSA 60079-0, -15 (Class I, Zone 2, Gc/IIC) IEC 60079-0, -15 IECEx test report (Class I, Zone 2, Gc/IIC) EN 60079-0, -15 ATEX certificate (Class I, Zone 2, Gc/IIC)
Operating environment	Operating temperature: -40°C to +70°C (40 LFM vented enclosure) -40°C to +60°C (sealed enclosure) -34°C to +75°C (Min. 200 LFM fan or blower-equipped enclosure) +85°C (type tested for 16 hours) Altitude: up to 15,000 feet
Storage environment	Temperature: -40°C to +85°C degrees Altitude: 15,000 feet IEC 60068-2-14
Humidity	Relative humidity of 5% to 95% non-condensing IEC 60068-2-78 IEC 60068-2-30
Shock and vibration	IEC 60068-2-27 (operational shock, 50G, 3ms, half sine) IEC 60068-2-27 (non-operational shock, 65-80G, 9ms, trapezoidal) MIL-STD-810, Method 514.4
Corrosion	IEC 60068-2-52 (salt fog) ² IEC 60068-2-60 (flowing mixed gas) ²
Warranty	Five-year limited hardware warranty on all IE3300 product IDs and all Industrial Ethernet (IE) power supplies. See more information under the Warranty section

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

² Test in progress.

Table 15 highlights Mean-Time-Between-Failures (MTBF) for Cisco Catalyst IE3300 Rugged Series switches.

Table 15. MTBF Information

Product ID detail	Rated MTBF (hours)
IE-3300-8T2S-E	633,420
IE-3300-8T2S-A	633,420
IE-3300-8P2S-E	611,350

Product ID detail	Rated MTBF (hours)
IE-3300-8P2S-A	611,350
IEM-3300-8T=	3,041,040
IEM-3300-8P=	2,931,233
IEM-3300-8S=	6,810,960
IEM-3300-16T=	1,594,210
IEM-3300-16P=	1,043,520
IEM-3300-6T2S=	3,729,130
IEM-3300-14T2S=	1,865,300

Table 16 highlights information about management and standards for Cisco Catalyst IE3300 Rugged Series switches.

Table 16. Management and Standards

Descriptions	Specifications	
IEEE standards	IEEE 802.1D MAC Bridges, STP IEEE 802.1p Layer2 COS prioritization IEEE 802.1q VLAN IEEE 802.1s Multiple Spanning-Trees IEEE 802.1w Rapid Spanning-Tree IEEE 802.1x Port Access Authentication IEEE 802.1AB LLDP IEEE 802.3ad Link Aggregation (LACP) IEEE 1588v2 PTP Precision Time Protocol	IEEE 802.3ah 100BASE-X SMF/MMF only IEEE 802.3x full duplex on 10BASE-T IEEE 802.3 10BASE-T specification IEEE 802.3u 100BASE-TX specification IEEE 802.3ab 1000BASE-T specification IEEE 802.3z 1000BASE-X specification IEEE 802.3af Power over Ethernet IEEE 802.3at Power over Ethernet plus
RFC compliance	RFC 768: UDP RFC 783: TFTP RFC 791: IPv4 protocol RFC 792: ICMP RFC 793: TCP RFC 826: ARP RFC 854: Telnet RFC 959: FTP RFC 1157: SNMPv1 RFC 1901,1902-1907 SNMPv2 RFC 2273-2275: SNMPv3 RFC 2571: SNMP Management	RFC 1492: TACACS+ RFC 1493: Bridge MIB Objects RFC 1534: DHCP and BOOTP interoperation RFC 1542: Bootstrap Protocol RFC 1643: Ethernet Interface MIB RFC 1757: RMON RFC 2068: HTTP RFC 2131, 2132: DHCP RFC 2236: IGMP v2 RFC 3376: IGMP v3 RFC 2474: DiffServ Precedence RFC 3046: DHCP Relay Agent Information Option

Descriptions	Specifications	
	RFC 1166: IP Addresses RFC 1256: ICMP Router Discovery RFC 1305: NTP RFC 951: BootP	RFC 3580: 802.1x RADIUS RFC 4250-4252 SSH Protocol RFC 5460: DHCPv6 bulk lease query
SNMP MIB objects	802.1X MIB CISCO-DHCP-SNOOPING-MIB CISCO-UDLD-MIB CISCO-ENVMON-MIB CISCO-PRIVATE-VLAN-MIB CISCO-PAE-MIB Cisco-Port-QoS-MIB CISCO-ERR-DISABLE-MIB CISCO- PROCESS-MIB LLDP-MIB CiscoMACNotification-MIB CISCO-CONFIG-COPY-MIB LLDP-MED-MIB Bridge-MIB CISCO-CAR-MIB CISCO-LAG-MIB CISCO-SYSLOG-MIB CISCO-FTP-CLIENT-MIB CISCO-VLAN-IFTABLE-RELATIONSHIP-MIB CISCO-VLAN-MEMBERSHIP-MIB Cisco-REP-MIB CISCO-PORT-STORM-CONTROL-MIB CISCO-CDP-MIB CISCO-IP-STAT-MIB CISCO-LICENSE-MGMT-MIB CISCO-STP-EXTN-MIB CISCO-VTP-MIB IEEE8023-LAG-MIB SMON-MIB CISCO-ACCESS-ENVMON-MIB CISCO-CALLHOME-MIB CISCO-CONFIG-MAN-MIB CISCO-FLASH-MIB	CISCO-IF-EXTENSION-MIB CISCO-IMAGE-MIB CISCO-MEMORY-POOL-MIB CISCO-PING-MIB SNMP-TARGET-EXT-MIB IF_MIB ENTITY-MIB LLDP-EXT-PNO-MIB NOTIFICATION-LOG-MIB OLD-CISCO-CPU-MIB ETHERLIKE-MIB OLD-CISCO-SYSTEM-MIB OLD-CISCO-MEMORY-MIB RMON-MIB SNMP-COMMUNITY-MIB SNMP-FRAMEWORK-MIB SNMP-PROXY-MIB SNMP-MPD-MIB SNMP-NOTIFICATION-MIB SNMP-TARGET-MIB SNMP-USM-MIB CISCO-DATACOLLECTION-MIB CISCO-CABLE-DIAG-MIB CISCO -PORT-SECURITY-MIB BULK_FILE_MIB NAC-NAD-MIB CISCO-ENTITY-ALARAM-MIB SNMP-VIEW-BASED-ACM-MIB CISCO-MAC-AUTH-BYPASS-MIB CISCO-AUTH-FRAMEWORK-MIB CISCO-BRIDGE-Ext-MIB SNMPv2-MIB CISCO-ENTITY-VENDORTYPE-OID-MIB

Descriptions	Specifications	
	CISCO-ENTITY-SENSOR-MIB IP-MIB CISCO-PAGP-MIB	CISCO-PRODUCTS-MIB IP-FORWARD-MIB BGP-CISCO-BGP-MIBv2

Table 17 highlights information about supported SFPs for Cisco Catalyst IE3300 Rugged Series switches.

Table 17. SFP Support

Part number	Specifications	SFP type	Temperature range ¹	Maximum distance	Cable type	Dom support
GLC-FE-100FX-RGD	100BASE-FX	FE	IND	2 km	Multimode fiber (MMF)	No
GLC-FE-100LX-RGD	100BASE-LX10	FE	IND	10 km	Single-Mode Fiber (SMF)	No
GLC-FE-100FX	100BASE-FX	FE	COM	2 km	MMF	No
GLC-FE-100LX	100BASE-LX10	FE	COM	10 km	SMF	No
GLC-FE-100EX	100BASE-EX	FE	COM	40 km	SMF	No
GLC-FE-100ZX	100BASE-ZX	FE	COM	80 km	SMF	No
GLC-FE-100BX-U	100BASE-BX10	FE	COM	10 km	SMF	No
GLC-FE-100BX-D	100BASE-BX10	FE	COM	10 km	SMF	No
GLC-SX-MM-RGD	1000BASE-SX	GE	IND	220–550 m	MMF	Yes
GLC-LX-SM-RGD	1000BASE-LX/LH	GE	IND	550 m / 10 km	MMF / SMF	Yes
GLC-ZX-SM-RGD	1000BASE-ZX	GE	IND	70 km	SMF	Yes
SFP-GE-S	1000BASE-SX	GE	EXT	220–550 m	MMF	Yes
SFP-GE-L	1000BASE-LX/LH	GE	EXT	550 m / 10 km	MMF / SMF	Yes
SFP-GE-Z	1000BASE-ZX	GE	EXT	70 km	SMF	Yes
GLC-BX-U	1000BASE-BX10	GE	COM	10 km	SMF	Yes
GLC-BX-D	1000BASE-BX10	GE	COM	10 km	SMF	Yes
GLC-SX-MM	1000BASE-SX	GE	COM	220–550 m	MMF	Yes
GLC-LH-SM	1000BASE-LX/LH	GE	COM	550 m / 10 km	MMF / SMF	Yes
GLC-ZX-SM	1000BASE-ZX	GE	COM	70 km	SMF	Yes

Part number	Specifications	SFP type	Temperature range ¹	Maximum distance	Cable type	Dom support
GLC-EX-SMD	1000BASE-EX	GE	COM	40 km	SMF	Yes
GLC-TE	1000BASE-T	GE	EXT	100 m	Cat5e	No
GLC-BX40-U-I=	1000BASE-BX40	GE	IND	40km	SMF	Yes
GLC-BX40-D-I=	1000BASE-BX40	GE	IND	40km	SMF	Yes
GLC-BX40-DA-I=	1000BASE-BX40	GE	IND	40km	SMF	Yes
GLC-BX80-U-I=	1000BASE-BX80	GE	IND	80km	SMF	Yes
GLC-BX80-D-I=	1000BASE-BX80	GE	IND	80km	SMF	Yes
GLC-SX-MMD=	1000BASE-SX	GE	EXT	550m	MMF	Yes
GLC-LH-SMD=	1000BASE-LX/LH	GE	EXT	550m/10km	MMF/SMF	Yes
GLC-ZX-SMD=	1000BASE-ZX	GE	EXT	70km	SMF	Yes
GLC-T-RGD=	1000BASE-T	GE	IND	100m	Copper	NA

¹ If non-industrial SFPs (EXT, COM) are used, the switch operating temperature must be derated.

Ordering information

Table 18 lists the ordering information for fixed system, expansion modules and memory that are commonly used with the Cisco Catalyst IE3300 switches.

Table 18. Ordering information

Product ID detail	Description
IE-3300-8T2S-E	Catalyst IE3300 with 8 GE Copper and 2 GE SFP, Modular, Network Essentials
IE-3300-8P2S-E	Catalyst IE3300 with 8 GE PoE+ and 2 GE SFP, Modular, Network Essentials
IE-3300-8T2S-A	Catalyst IE3300 with 8 GE Copper and 2 GE SFP, Modular, Network Advantage
IE-3300-8P2S-A	Catalyst IE3300 with 8 GE PoE/PoE+ and 2 GE SFP, Modular, Network Advantage
IEM-3300-8T	Catalyst IE3300 with 8 GE Copper ports, Expansion Module
IEM-3300-8P	Catalyst IE3300 w/ 8 GE PoE/PoE+ Copper ports, Expansion Module
IEM-3300-8S	Catalyst IE3300 with 8 GE SFP ports, Expansion Module
IEM-3300-16T	Catalyst IE3300 with 16 GE Copper ports, Expansion Module
IEM-3300-16P	Catalyst IE3300 with 16 GE PoE/PoE+ Copper, Expansion Module
IEM-3300-6T2S	Catalyst IE3300 with 6GE Copper + 2GE SFP, Expansion Module

Product ID detail	Description
IEM-3300-14T2S	Catalyst IE3300 with 14GE Copper + 2GE SFP, Expansion Module
SD-IE-4GB=	IE 4GB SD memory card for IE
STK-RACK-DINRAIL=	19" DIN Rail mount kit
IE3300-NW-A=	Network Advantage License for IE3300, Perpetual
IE3300-DNA-E	Cisco DNA Essentials license for IE3300 Series
IE3300-DNA-E-3Y	IE 3300 Cisco DNA Essentials, 3 Year Term license
IE3300-DNA-E-5Y	IE 3300 Cisco DNA Essentials, 5 Year Term license
IE3300-DNA-A	Cisco DNA Advantage license for IE3300 Series
IE3300-DNA-A-3Y	IE 3300 Cisco DNA Advantage, 3 Year Term license
IE3300-DNA-A-5Y	IE 3300 Cisco DNA Advantage, 5 Year Term license
LIC-MRP-MGR-XE=	MRP Ring Manager License
LIC-MRP-CLIENT-XE=	MRP Ring Client License

Warranty

Five-year limited HW warranty on all IE3300 PIDs and all IE Power Supplies ([see table 10 above](#))

See link below for more details on warranty

<https://www.cisco.com/c/en/us/products/warranties/warranty-doc-c99-740591.html>.

Cisco environmental sustainability

Information about Cisco’s environmental sustainability policies and initiatives for our products, solutions, operations, and extended operations or supply chain is provided in the “Environment Sustainability” section of Cisco’s [Corporate Social Responsibility](#) (CSR) Report.

Reference links to information about key environmental sustainability topics (mentioned in the “Environment Sustainability” section of the CSR Report) are provided in the following table:

Sustainability topic	Reference
Information on product material content laws and regulations	Materials
Information on electronic waste laws and regulations, including products, batteries, and packaging	WEEE compliance

Cisco makes the packaging data available for informational purposes only. It may not reflect the most current legal developments, and Cisco does not represent, warrant, or guarantee that it is complete, accurate, or up to date. This information is subject to change without notice.

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Document history

New or Revised Topic	Described In	Date
Updated hardware configurations	Table 3	12/17/2019
Updated power specifications and power consumption	Table 8 and Table 9	12/17/2019
Added PWR-IE50W-AC-IEC= to Power Supply Options; Added details on IPv6 support and PROFINET support on key supported software features	Table 10 and Table 11	12/17/2019
Updated key supported software features: IP protocols, IP Multicast	Table 12	12/17/2019
Updated Management and Standards: RFC 5460 and SNMP MIB objects	Table 16	12/17/2019
Added new part numbers on SFP support	Table 17	12/17/2019
Fixed descriptions on product description in ordering information	Table 18	12/17/2019

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