Cisco IE3500 Rugged Series

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Products overview

The Cisco IE3500 Rugged Series switches deliver high bandwidth, higher power and feature rich switching performance in a rugged and modular form factor. The Cisco IE3500 Rugged Series are designed with features that enable the industrial network infrastructure to seamlessly accommodate machine vision use cases, AI-driven analysis, virtualization, large scale networks, robust security, and edge-to-cloud connectivity.

Advanced Features for Operational Technology (OT) Networks

- **TSN Frame-Preemption**: The IE3500 is the first Cisco IE switch to incorporate IEEE802.1Qbu and IEEE802.3br based frame-preemption technology, significantly reducing jitter and delay for time-sensitive control packets.
- **Enhanced Resiliency**: The IE3500 supports protocols such as **Media Redundancy Protocol (MRP)**, **Resilient Ethernet Protocol (REP)**, and **Device Level Ring (DLR)**[1], providing redundancy and fast failover times.
- **Lossless Redundancy**: For deployments requiring uninterrupted connectivity, the IE3505 includes **High-Availability Seamless Redundancy (HSR)**[1] and **Parallel Redundancy Protocol (PRP)**[1], ensuring seamless failover and network continuity.

Network security and Observability

- **Secure Boot:** The IE3500 features Secure Boot designed to ensure that only trusted and authenticated software is executed during the boot process, with its hardware-anchored root of trust in Cisco Trust Anchor Module.
- **Cyber visibility:** With Cisco Cyber Vision included[*], the IE3500 identifies connected assets, their profiles, vulnerabilities, and communication patterns to assess your OT security posture and help drive cybersecurity best practices.
- **Segmentation:** Cisco TrustSec technology enables policy-based segmentation that helps reduce attack surfaces and contains threats by automatically adapting access based on user and device identity. With Cisco Cyber Vision included[*], you get AI-assisted segmentation policy creation and can simulate them to ensure enforcement will not disrupt operations.
- **Secure remote access:** Cyber Vision also turns the IE3500 into a zero-trust remote access gateway to help you control risks from remote users who need to configure, maintain, or troubleshoot connected assets.
- **Network Assurance:** IE3500 can host ThousandEyes Enterprise Agent that gains visibility into owned and third-party network to avoid network outages.

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Flexible Management Options

The IE3500 offers multiple management choices to suit various deployment needs:

1. **On-Device Management:** Use the **WebUI** or **command line tool** for standalone devices, providing an intuitive on-device GUI and CLI options.
2. **On-Premises Management:** Manage the IE3500 via **Catalyst Center** for on-premises deployments.
3. **Cloud Management:** Simplified, cloud-based management and control using **Meraki dashboard**[2] part of Cisco Cloud Control.
4. **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.

Fabric Capabilities

The IE3500 supports Layer 3 functionality and can extend the IT fabric into the OT network. With support for Cisco Software Defined Access Fabric Edge and BGP-EVPN, large networks are easy to scale and manage.

Future-Ready Hardware Capabilities

The IE3500 is designed to meet the demands of expanding networks, offering:

- **Three 10G uplink ports** for high-speed connectivity
- **Up to 90W of PoE power per port**, ensuring support for power-intensive devices.
- **Versatile expansion module options that expand total switch capacity 4, 8 or 16 ports**

[1] Supported on IE3505 variants only

[2] The base switch is compatible with IOS XE 26.1.1 and later, while expansion module support will arrive in a future release. Please note that OT protocols are not supported when the IE3500 is managed via the cloud.

[*] The included Cyber Vision license is for 24 endpoints and a 3-year term. Please see the Ordering Information section for more details.



Figure 1.
Cisco IE3500 Rugged Series Switch

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Features and benefits

Table 1. IE3500 Features and benefits

Feature	Benefit
Robust industrial design	• Built for harsh environments and temperature ranges (-40° C to +75° C or -40° F to 167° F) • Fanless, convection-cooled with no moving parts for extended durability • Hardened for industrial shock and vibration, 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
Ethernet Interfaces	• Provides secure access for new high-speed applications in the industrial space • Packs up to 11 ports of 1/10 Gigabit Ethernet (GE) – 3 ports of 1GE Small Form-Factor Pluggable (SFP) uplinks or 3 ports of 10GE Small Form-Factor Pluggable (SFP+) and 8 ports of 1GE Data or PoE+/4PPoE RJ45 downlinks in a DIN-Rail form-factor base system • Expandable to 27 ports of GE/Multigigabit by attaching one of 8 compatible modules (copper, fiber options) • Connects high-speed wireless access points • Enables High-Definition (HD) IP cameras and Programmable Logic Controllers (PLC) • Supports precision time protocol as a transparent or a boundary clock. • Delivers multiple rings and redundant ring topology for network configurations • Extends geographical scalability where longer-distance connectivity is required
High-density industrial Power over Ethernet (PoE)	• Supports up to 24 PoE ports with combination or PoE/PoE+/4PPoE ports and total PoE power budget of up to 480W • Fast and Perpetual PoE ensure seamless PoE experience and quick boot of end points • 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
Network security	• Device security for secure boot with its hardware-anchored root of trust in Cisco Trust Anchor Module • Support for MACSEC-256 to prevent man-in-the-middle attack • Cisco Cyber Vision included* to identify all connected assets, their profiles, vulnerabilities, communication activities, and your OT security posture • Supports Cisco TrustSec technology-based network segmentation to help reduce the blast radius of an attack by preventing lateral movement of malware and threats • Cyber Vision included* for AI-assisted segmentation policy creation and policy simulation to ensure enforcement will not disrupt operations • Cyber Vision included* for zero-trust remote access to connected assets, enabling secure troubleshooting, monitoring, and maintenance, without requiring VPNs

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Feature	Benefit
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 • Cloud-based management using Meraki dashboard[2] part of Cisco Cloud Control • Cisco's AI Troubleshooting agentic system detects and diagnoses network issues, and helps non expert users solve them faster
IOx Application Hosting	• Cisco Cyber Vision included[*] for cyber visibility in the industrial environment, AI-assisted network segmentation, and zero trust remote access to OT assets • ThousandEyes enterprise Agent[1]
Network assurance	Support for ThousandEyes Enterprise Agent[1] helps to quickly identify and resolve potential disruptions in complex network environments, minimizing downtime and enhancing operational productivity
Fabric support	• Support for Cisco Software Defined Access • Extended and Policy Extended node • Fabric Edge node • Support for BGP-EVPN
Swap Drive: zero-configuration replacement	• True zero-configuration and simple switch replacement when swapping RMA units or system upgrade • No networking expertise required • Helps ensure fast recovery
Full Flexible NetFlow (FNF)	• Provides enhanced flow and threat visibility • Enables optimization of the network infrastructure, reduces operation costs, and improves capacity planning and security incident detection
Advanced data plane features	• Parallel Redundancy Protocol (PRP)[1] • High-availability Seamless Redundancy Protocol (HSR)[1] • Device Level Ring (DLR)[1]

[1] Supported on IE3505 variants only

[2] The base switch is compatible with IOS XE 26.1.1 and later, while expansion module support will arrive in a future release. Please note that OT protocols are not supported when the IE3500 is managed via the cloud.

[*] Please see Ordering Information section for more details

Table 2. Product feature set

Product family	Platforms supported	Cisco IOS Software images (feature sets) supported
IE3500	IE3500	Network Essentials, Network Advantage[1]

[1] Network Advantage License includes all Network Essentials Features as well as a 3-year limited term and 24 endpoints Advantage license of Cisco Cyber Vision at no extra charge.

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Product specifications

Table 3. IE3500 Hardware Configurations and Expansion Modules

Product number	Total ports	1000/100/10M RJ45 Copper ports	SFP ports	2.5G/1G/ 100M RJ45 Copper ports	Max PoE budget (Base switch only)	Max Total PoE Budget with Expansion Module	Network License
IE-3500-8T3S-E	11	8	3x 1G/100M	-	-	-	Network Essentials
IE-3500-8T3S-A	11	8	3x 1G/100M	-	-	-	Network Advantage
IE-3500-8P3S-E	11	8 PoE/PoE+	3x 1G/100M	-	240W	360W	Network Essentials
IE-3500-8P3S-A	11	8 PoE/PoE+	3x 1G/100M	-	240W	360W	Network Advantage
IE-3505-8T3S-E	11	8	3x 1G/100M	-	-	-	Network Essentials
IE-3505-8T3S-A	11	8	3x 1G/100M	-	-	-	Network Advantage
IE-3505-8P3S-E	11	8 PoE/PoE+	3x 1G/100M	-	240W	480W	Network Essentials
IE-3505-8P3S-A	11	8 PoE/PoE+	3x 1G/100M	-	240W	480W	Network Advantage
IE-3500-8T3X-E	11	8	3x 10G/1G	-	-	-	Network Essentials
IE-3500-8T3X-A	11	8	3x 10G/1G	-	-	-	Network Advantage
IE-3500-8U3X-E	11	8 PoE/PoE+/ 4PPoE	3x 10G/1G	-	480W	480W	Network Essentials
IE-3500-8U3X-A	11	8 PoE/PoE+/ 4PPoE	3x 10G/1G	-	480W	480W	Network Advantage
IEM-3500-8P=[1]	8	8 PoE/PoE+	-	-	-	-	-
IEM-3500-16P=[1]	16	16 PoE/PoE+	-	-	-	-	-
IEM-3500-8S=	8	-	8x 1G/100M	-	-	-	-

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Product number	Total ports	1000/100/10M RJ45 Copper ports	SFP ports	2.5G/1G/ 100M RJ45 Copper ports	Max PoE budget (Base switch only)	Max Total PoE Budget with Expansion Module	Network License
IEM-3500-8T=	8	8	-	-	-	-	-
IEM-3500-16T=	16	16	-	-	-	-	-
IEM-3500-6T2S=	8	6	2x 1G/100M	-	-	-	-
IEM-3500-14T2S=	16	14	2x 1G/100M	-	-	-	-
IEM-3500-4MU=[1,2]	4	4 PoE/PoE+/ 4PPoE	-	4	-	-	-

[1] PoE modules can only be installed on a host system that supports PoE.

[2] HSR/PRP/DLR is not supported on IEM-3500-4MU=.

Table 4. IE3500 Hardware Specifications

Hardware specifications	IE-3500-8T3S	IE-3500-8P3S	IE-3505-8T3S	IE-3505-8P3S	IE-3500-8T3X	IE-3500-8U3X
PoE power budget	Not applicable	360W[1] (including expansion module)	Not applicable	480W[1] (including expansion module)	Not applicable	480W
Removable storage	USB[2,3], SD card[2]	USB[2,3], SD card[2]	USB[2,3], SD card[2]	USB[2,3], SD card[2]	USB[2,3], SD card[2]	USB[2,3], SD card[2]
Alarms	2 alarms in, 1 alarm out	2 alarms in, 1 alarm out	2 alarms in, 1 alarm out	2 alarms in, 1 alarm out	2 alarms in, 1 alarm out	2 alarms in, 1 alarm out
Console ports	1 RS-232 (via RJ-45), 1 USB Type C	1 RS-232 (via RJ-45), 1 USB Type C	1 RS-232 (via RJ-45), 1 USB Type C	1 RS-232 (via RJ-45), 1 USB Type C	1 RS-232 (via RJ-45), 1 USB Type C	1 RS-232 (via RJ-45), 1 USB Type C
Power inputs	Dual DC power input	Dual DC power input	Dual DC power input	Dual DC power input	Dual DC power input	Dual DC power input

[1] The selected power supply must have sufficient capacity to power the switch (see table 8), the expansion module (see table 9), and the connected PoE load.

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

[3] USB 2.0 to load system images and set configurations.

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Table 5. Hardware configuration for Cisco IE3500 Rugged Series modules.

Product ID	Total ports on expansion module	Copper (RJ45)	PoE/PoE+	SFP	Copper (RJ45) 2.5G/1G/100M (with up to 802.3bt type 4 PoE)	Total system ports (base switch + expansion module)
IEM-3500-8P=	8	-	8	-	-	19
IEM-3500-16P=	16	-	16	-	-	27
IEM-3500-8S=	8	-	-	8	-	19
IEM-3500-8T=	8	8	-	-	-	19
IEM-3500-16T=	16	16	-	-	-	27
IEM-3500-6T2S=	8	6	-	2	-	19
IEM-3500-14T2S=	16	14	-	2	-	27
IEM-3500-4MU=	4	-	-	-	4	15

Table 6. Physical configuration for Cisco IE3500 Rugged Series switches and modules.

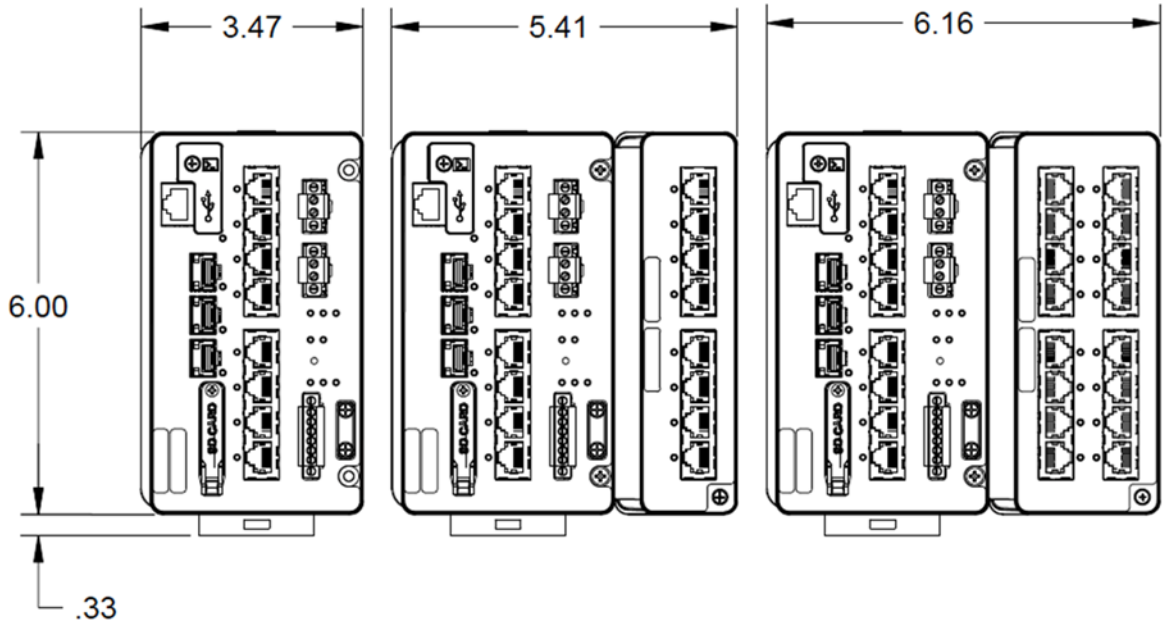
Product ID	Dimension (W x H x D)	Weight	Mounting
IE-3500-8T3S	3.48 x 6.00 x 5.29 inches 8.84 x 15.24 x 13.44 cm	3.90 lbs 1.77 kgs	DIN rail
IE-3500-8P3S	3.48 x 6.00 x 5.29 inches 8.84 x 15.24 x 13.44 cm	3.90 lbs 1.77 kgs	DIN rail
IE-3505-8T3S	3.48 x 6.00 x 5.29 Inches 8.84 x 15.24 x 13.44 cm	3.95 lbs 1.79 kgs	DIN rail
IE-3505-8P3S	3.98 x 6.00 x 5.29 inches 10.11 x 15.24 x 13.44 cm	4.35 lbs 1.97kgs	DIN rail
IE-3500-8T3X	3.98 x 6.00 x 5.29 inches 10.11 x 15.24 x 13.44 cm	4.70 lbs 2.13 kgs	DIN rail
IE-3500-8U3X	4.38 x 6.00 x 5.29 inches 11.13 x 15.24 x 13.44 cm	5.05 lbs 2.29 kgs	DIN rail
IEM-3500-8T=	2.51 x 6.00 x 5.29 inches 6.38 x 15.24 x 13.44 cm	1.95 lbs 0.88 kgs	DIN rail
IEM-3500-8S=	2.51 x 6.00 x 5.29 inches 6.38 x 15.24 x 13.44 cm	1.95 lbs 0.88 kgs	DIN rail

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Product ID	Dimension (W x H x D)	Weight	Mounting
IEM-3500-16T=	3.26 x 6.00 x 5.29 inches 8.28 x 15.24 x 13.44 cm	2.45 lbs 1.11 kgs	DIN rail
IEM-3500-6T2S=	2.51 x 6.00 x 5.29 inches 6.38 x 15.24 x 13.44 cm	1.95 lbs 0.88 kgs	DIN rail
IEM-3500-14T2S=	3.26 x 6.00 x 5.29 inches 8.28 x 15.24 x 13.44 cm	2.50 lbs 1.13 kgs	DIN rail
IEM-3500-8P=	2.51 x 6.00 x 5.29 inches 6.38 x 15.24 x 13.44 cm	1.95 lbs 0.88 kgs	DIN rail
IEM-3500-16P=	3.26 x 6.00 x 5.29 inches 8.28 x 15.24 x 13.44 cm	2.50 lbs 1.13 kgs	DIN rail
IEM-3500-4MU=	3.26 x 6.00 x 5.29 inches 8.28 x 15.24 x 13.44 cm	2.15 lbs 0.98 kgs	DIN rail

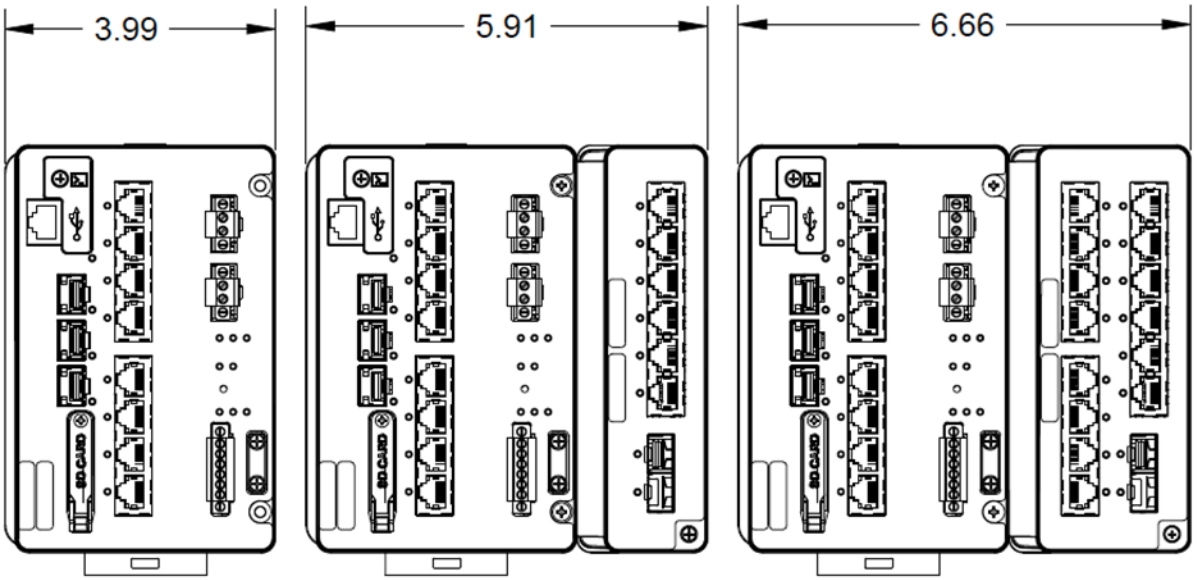
System dimensions

Below image shows the dimensions of IE-3500-8T3S, IE-3500-8P3S, IE-3505-8T3S chassis. They share the same dimension. The image shows the dimensions of the base unit (left), base unit with single width module (middle) and base unit with double width module (right).

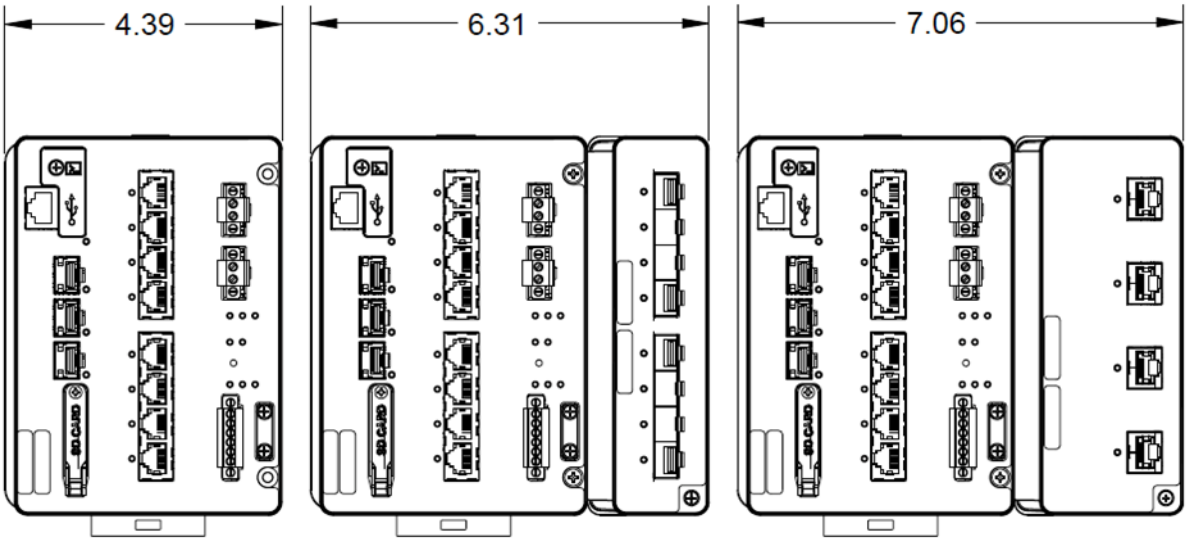


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Below image shows the dimensions of IE-3500-8T3X, IE-3505-8P3S chassis. They share the same dimension. The image shows the dimensions of base unit (left), base switch with single width module (middle) and base switch with double width module (right).

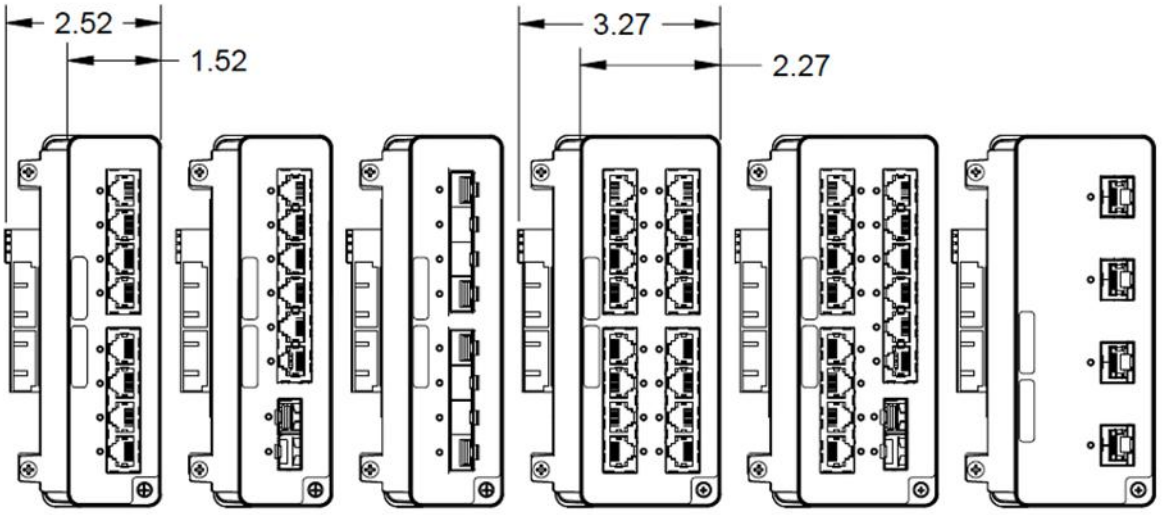


Below image shows the dimensions of IE-3500-8U3X base unit (left), base unit with single width module (middle) and base unit with double width module (right).

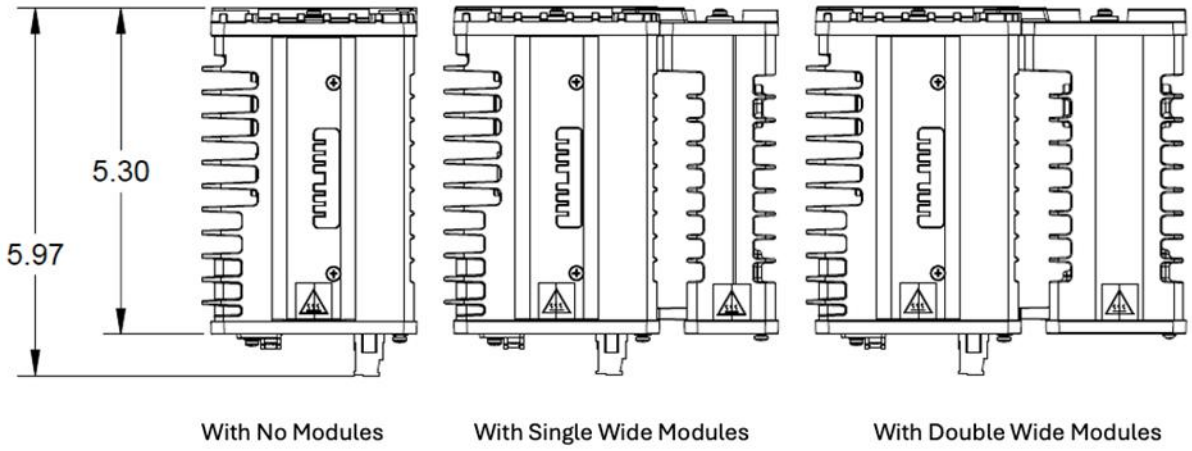


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Front View of Expansion Modules



Top view



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Table 7. Performance and scalability features for Cisco IE3500 Rugged Series switches.

Features	All SKUs
Forwarding rate	Line rate for all ports and all packet sizes
Number of queues	8
Unicast MAC addresses	24000
Internet Group Management Protocol (IGMP multicast groups)	1024
No. of Active VLANs	1024
No. of VLAN IDs	4096
IPv4 Indirect routes	7000
IPv6 Indirect routes	3500
Spanning Tree Protocol (STP) instances	128
Access Control Entries (PACL/VACL/RACL)	1536
Flash (User Accessible)	5.1 GB
SD card capacity[1]	16 GB
Jumbo Frames[2]	9198 bytes
Number of SVI	32
VNI scale (SD-Access)	L3 VNI: 32; L2 VNI: 200

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

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

Table 8 highlights the power specifications for Cisco IE3500 Rugged Series switches.

Table 8. IE3500 Power Specifications

	IE-3500-8T3S	IE-3500-8P3S	IE-3505-8T3S	IE-3505-8P3S	IE-3500-8T3X	IE-3500-8U3X
Input voltage range	12V to 48V nominal 9.6V to 60V absolute	12V to 54V nominal 9.6V to 60V absolute 48VDC is required for PoE and 54VDC is required for PoE+	12V to 48V nominal 9.6V to 60V absolute	12V to 54V nominal 9.6V to 60V absolute 48VDC is required for PoE and 54VDC is required for PoE+	12V to 48V nominal 9.6V to 60V absolute	12V to 54V nominal 9.6V to 60V absolute 48VDC is required for PoE and 54VDC is required for PoE+
Input current	7A	11A	7A	11A	11 7A	11.5A

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	IE-3500-8T3S	IE-3500-8P3S	IE-3505-8T3S	IE-3505-8P3S	IE-3500-8T3X	IE-3500-8U3X
Power consumption[1]	29W	32W	41W	42W	37W	49W

[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 the power that is provided to attached PoE devices.

Table 9 highlights the power specifications for IE3500 Expansion Modules.

Table 9. IEM Expansion Module Power Consumption

Product ID	Power Consumption[1]
IEM-3500-8T=	6W
IEM-3500-8S=	9W
IEM-3500-16T=	11W
IEM-3500-6T2S=	10W
IEM-3500-14T2S=	16W
IEM-3500-8P=	12W
IEM-3500-16P=	22W
IEM-3500-4MU=	20W

[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 the power that is provided to attached PoE devices.

Table 10 highlights the power supply options for Cisco IE3500 Rugged Series switches.

Table 10. Power Supply Options

Product ID[1]	Wattage	Rated nominal input operating range	PoE/PoE+ support[2]	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=	50W	AC 100-240V/1.0A 50-60Hz	No	
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	

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Product ID[1]	Wattage	Rated nominal input operating range	PoE/PoE+ support[2]	More Details
PWR-IE170W-PC-AC=[3]	170W	AC 100-240V/2.3A 50-60Hz or DC 125-250V/2.1A	Yes	
PWR-IE240W-PCAC-L=	240W	AC 100-240V/2.5A 50-60Hz	Yes	
PWR-IE240W-AC-IEC=	240W	AC 100-240V/3.1A, 50-60Hz	Yes	
PWR-IE400W-AC-IEC=	400W	AC 100-240V/5.0A, 50-60Hz	Yes	
PWR-IE480W-PCAC-L=	480W	AC 100-240V/5.0A 50-60Hz	Yes	

[1] See the Power Supply Datasheet for information on which power supplies are certified for Hazardous Locations.

[2] The selected power supply must have sufficient capacity to power the switch (see table 8), the expansion module (see table 9).

[3] Base switch must be V02 or higher to support PWR-IE170W-PC-AC=.

Table 11 and Table 12 highlight the supported software features for Cisco IE3500 Rugged Series switches.

Table 11. Key Supported Software Features (Network Essentials)

Network Essentials License (Perpetual)	Features
Layer 2 switching	IEEE 802.1Q, 802.1w,802.1ab,802.1s, 802.3ad, 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, Multicast Listener Discovery (MLD)
Management	WebUI, MIB, SNMP, syslog, DHCP server, SPAN session, RSPAN, FSPAN, FRSPAN, ERSPAN, Express setup, NETCONF, RESTCONF, gPRC / MDT
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), NetFlow v9 and v10 (IPFIX) export, MACsec-128
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, Open Shortest Path First, OSPF v3, Routing Information Protocol (RIP), Policy-Based Routing (PBR)

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Network Essentials License (Perpetual)	Features
Industrial Ethernet	CIP Ethernet/IP, IEEE 1588 PTP v2 (default and power)[1], PROFINET
TSN	Frame-Preemption (802.3br, 802.1QBu)
Redundancy	Resilient Ethernet Protocol (REP) ring, PROFINET-Multi Ring Protocol (MRP), REP Fast, REP Segment ID Auto-discovery, REP ZTP Support, Parallel redundancy protocol (PRP)2, PTP over PRP[2], High-Availability Seamless Redundancy (HSR-SAN)[2,] Device Level Ring (DLR)[2], HSR-PRP Dual Redbox[2]
Utility	Dying gasp, SCADA protocol classification – GOOSE messaging, MODBUS TCP/IP
Automation	YANG, NETCONF, RESTCONF, gRPC / MDT
Industrial Management	Layer 2 switching with 1:1 switch Network Address Translation (L2NAT) for uplink ports[3]
IOx	Container (Native Docker), Cisco Cyber Vision, Cisco ThousandEyes

[1] IEM-3500-4MU expansion module does not support PTP.

[2] Supported on IE3505 variants only

[3] L2NAT is supported only for same-VLAN, hardware-bridged traffic. L3NAT is required for routed traffic between SVIs. L3NAT requires a Network Advantage license.

Table 12. Network Advantage Features

Network Advantage License (Perpetual)[1]	Features
IP routing Protocols	OSPF (IPv4 and IPv6), BGP (v4 and v6), ISIS (v4 and v6), EIGRP (v4 and v6), HSRP (v4 and v6), BFD Echo Mode for OSPFv3
Virtualization	VRF-lite, VRF-Aware SGT
Security	Cisco TrustSec®: Security group ACL (SGACL), SGACL logging, Extensible Authentication Protocol – Transport Layer Security (EAP-TLS), IEEE 802.1AE MACsec-256, SD-Access Policy Extended Node, SD-Access Fabric Edge Node, Generic Routing Encapsulation (GRE)
Fabric	Cisco SDA fabric edge, BGP-EVPN leaf node
IP Multicast	PIM sparse mode (PIM-SM), PIM dense mode (PIM-DM), MSDP, Multicast routing BSR (IPv4/IPv6), Auto RP (IPv4), Embedded RP (IPv6)
Industrial Management	Layer 3 Network Address Translation (L3NAT)

[1] Network Advantage License includes all Network Essentials features as well as a 3-year limited term and 24 endpoints Advantage license of Cisco Cyber Vision at no extra charge.

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Table 13 highlights the details on Cisco DNA Essentials and Cisco DNA Advantage License for Cisco IE3500 Rugged Series switches.

Table 13. Cisco DNA Essentials and Advantage Features

Feature	Description	Cisco Catalyst Center DNA Essentials[2]	Cisco Catalyst Center DNA Advantage[1,2]
Cisco Catalyst Center	Discovery, topology, inventory, software image management	Yes	Yes
Visibility	Overall Health Dashboard	Yes	Yes
Day-zero network bring-up automation	Cisco Network Plug-and-Play application	Yes	Yes
SD-Access Extended Node	SD-Access fabric overlay extension	Yes	Yes
Industrial Support	MRP Monitoring, REP Configuration, REP Topology View	Yes	Yes
LAN Automation	Lan automation helps create error-free underlay network for SDA deployments	No	Yes
SD-Access Policy Extended Node	SD-Access fabric overlay extension and segmentation	No	Yes
SD-Access Fabric Edge Node	A fabric device that connects wired endpoints to the SDA fabric.	No	Yes
Device 360	Device 360, Client 360, and Network Health Insights	No	Yes
Patch/SMU Lifecycle Management	Management of Software Maintenance Upgrades (SMU) or Patches via Cisco Catalyst Center	No	Yes
Application Visibility and Control (NBAR2)	Provides application-level classification, monitoring, and traffic control	No	Yes

[1] Cisco Catalyst Center DNA Advantage license can be paired only with the Network Advantage license.

[2] Cisco Catalyst Center licenses for Industrial Ethernet switches are add-on/optional and not mandatory. They do not include Network Tier features.

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Table 14 highlights the details on Cisco Meraki Enterprise and Cisco Meraki Advantage License for Cisco IE3500 Rugged Series switches.

Table 14. Cisco Meraki Enterprise and Advantage Features

Feature	Description	Cisco Meraki Enterprise LIC-IE3500-E	Cisco Meraki Advantage LIC-IE3500-A
Cisco Meraki Cloud Management[1]	Discovery, topology, inventory, software image management with scheduling control	Yes	Yes
Visibility	Overall Health Dashboard	Yes	Yes
Onboarding	One command to onboard	Yes	Yes
Switching Capabilities	802.1p Quality of Service, 802.1Q VLAN and trunking support, static routing, multicast routing, DHCP snooping, DHCP server, DHCP relay	Yes	Yes
Security	Cisco TrustSec® with Adaptive Policy	No	Yes

[1] The base switch is compatible with IOS XE 26.1.1 and later, while expansion module support will arrive in a future release. Please note that OT protocols are not supported when the IE3500 is managed via the cloud.

Table 15 highlights the compliance specifications for Cisco IE3500 Rugged Series switches.

Table 15. Compliance Specifications[1]

Specifications	
Electromagnetic emissions	FCC 47 CFR Part 15 subpart B Class A EN 55032/CISPR 32 Class A VCCI Class A AS/NZS CISPR 32 Class A CISPR 11 Class A ICES 003 Class A CNS 15936 Class A KS C9832 Class A EN 300 386
Electromagnetic immunity	CISPR 35 EN55035 KS C9835 EN 61000-4-2 Electrostatic 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)

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Specifications	
	EN 61000-4-8 Power Frequency Magnetic Field (1000A/m) EN 61000-4-10 Damped Oscillatory Magnetic Field (100 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 (In-progress) EN/IEC 61850 - 3 Electric Substations Communications Networking (In-Progress) ODVA Industrial EtherNet/IP IP30 CC-Link IE (Field/Control/TSN Class A)
Safety standards and certifications	Information Technology Equipment: UL/CSA 62368-1, IEC 62368-1 CB with all country deviations Industrial floor (control equipment): UL/CSA 61010-2-201 Hazardous Locations: UL121201(Class I, Div 2, groups A-D) CSA 213 (Class I, Div 2, groups A-D) UL/CSA 60079-0 (Class I, Zone 2, Gc/IIC) IEC 60079-0, -7 IECEx test report (Class I, Zone 2, Gc/IIC) cabinet enclosure required EN 60079-0, -7 ATEX certificate (Class I, Zone 2, Gc/IIC) cabinet enclosure required
Operating environment	Operating temperature: -40° C to +70° C (40 LFM vented enclosure) -40° C to +60° C (sealed enclosure) -40° 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, no derating Altitude: up to 40,000 feet, 25° C Max
Storage environment	Temperature: - 40° C to +85° C Altitude: 40,000 feet IEC 60068-2-14

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Specifications	
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) IEC 60068-2-6 (vibration-sinusoidal, 5Hz-150Hz), IEC 60068-2-64 (random vibration)
Railway	EN50121-4 EN50121-3-2 EN50125-3
Corrosion	IEC 60068-2-52 (salt fog) IEC 60068-2-60 (flowing mixed gas)
Environment	RoHS, WEEE, REACH compliant

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

Table 16. Mean Time Between Failures (MTBF) Information - Telcordia Issue 4

Product ID	Rated MTBF (hours)
IE-3500-8T3S	518,889 Hrs
IE-3500-8P3S	474,469 Hrs
IE-3505-8T3S	496,476 Hrs
IE-3505-8P3S	454,728 Hrs
IE-3500-8T3X	518,082 Hrs
IE-3500-8U3X	474,807 Hrs
IEM-3500-8T=	3,012,621 Hrs
IEM-3500-8S=	4,268,192 Hrs
IEM-3500-16T=	1,649,967 Hrs
IEM-3500-6T2S=	2,438,014 Hrs
IEM-3500-14T2S=	1,590,095 Hrs
IEM-3500-8P=	1,881,021 Hrs
IEM-3500-16P=	991,619 Hrs
IEM-3500-4MU=	2,199,022 Hrs

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Table 17 highlights information about management and standards for Cisco IE3500 Rugged Series switches.

Table 17. Management and Standards

Description	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 IEEE 802.3bt Type 4 Power over Ethernet
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 1166: IP Addresses RFC 1256: ICMP Router Discovery RFC 1305: NTP RFC 951: BootP	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 RFC 3580: 802.1x RADIUS RFC 4250-4252: SSH Protocol RFC 5460: DHCPv6 bulk lease query
SNMP MIB objects	CISCO-DHCP-SNOOPING-MIB CISCO-UDLDP-MIB CISCO-ENVMON-MIB CISCO-PRIVATE-VLAN-MIB CISCO-PAE-MIB Cisco-Port-QoS-MIB CISCO-ERR-DISABLE-MIB CISCO- PROCESS-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

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Description	Specifications	
	LLDP-MIB	NOTIFICATION-LOG-MIB
	CiscoMACNotification-MIB	OLD-CISCO-CPU-MIB
	CISCO-CONFIG-COPY-MIB	ETHERLIKE-MIB
	LLDP-MED-MIB	OLD-CISCO-SYSTEM-MIB
	Bridge-MIB	OLD-CISCO-MEMORY-MIB
	CISCO-CAR-MIB	RMON-MIB
	CISCO-LAG-MIB	SNMP-COMMUNITY-MIB
	CISCO-SYSLOG-MIB	SNMP-FRAMEWORK-MIB
	CISCO-FTP-CLIENT-MIB	SNMP-PROXY-MIB
	CISCO-VLAN-IFTABLE-RELATIONSHIP-MIB	SNMP-MPD-MIB
	CISCO-VLAN-MEMBERSHIP-MIB	SNMP-NOTIFICATION-MIB
	CISCO-PORT-STORM-CONTROL-MIB	SNMP-TARGET-MIB
	CISCO-CDP-MIB	SNMP-USM-MIB
	CISCO-IP-STAT-MIB	CISCO-DATACOLLECTION-MIB
	CISCO-STP-EXTN-MIB	CISCO-CABLE-DIAG-MIB
	CISCO-VTP-MIB	CISCO-PORT-SECURITY-MIB
	IEEE8023-LAG-MIB	BULK_FILE_MIB
	SMON-MIB	CISCO-ENTITY-ALARM-MIB
	CISCO-ACCESS-ENVMON-MIB	SNMP-VIEW-BASED-ACM-MIB
	CISCO-CALLHOME-MIB	CISCO-MAC-AUTH-BYPASS-MIB
	CISCO-CONFIG-MAN-MIB	CISCO-AUTH-FRAMEWORK-MIB
	CISCO-FLASH-MIB	CISCO-BRIDGE-Ext-MIB
	CISCO-ENTITY-SENSOR-MIB	SNMPv2-MIB
	IP-MIB	CISCO-ENTITY-VENDORTYPE-OID-MIB
	CISCO-PAGP-MIB	CISCO-PRODUCTS-MIB
		IP-FORWARD-MIB
		BGP-CISCO-BGP-MIBv2

Table 18 through 20 highlight information about supported SFPs for Cisco IE3500 Rugged Series switches and IEM3500 modules.

Table 18. Below 100mb FE SFPs supported only on IE3500/IE3505 1G uplink variants and on expansion module SFP downlinks[1]

Product ID	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

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Product ID	Specifications	SFP type	Temperature range[1]	Maximum distance	Cable type	Dom support
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

Table 19. Below GE SFPs supports on both IE3500/IE3505 1G uplink and 10GE uplink variants and on expansion module downlinks[1]

Product ID	Specifications	SFP type	Temperature range[1]	Maximum distance	Cable type	Dom support
GLC-SX-MM-RGD=	1000BASE-SX	GE	IND	220-550 m	MMF	Yes
GLC-LX-SM-RGD=	1000BASE-LX/LH	GE	IND	550 110 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
GLC-EX-SMD=	1000BASE-EX	GE	COM	40 km	SMF	Yes
GLC-TE=[2]	1000BASE-T	GE	EXT	100 m	Cat5e	No
GLC-T=[2]	1000BASE-T	GE	EXT	100m	Cat5e	No
GLC-BX40-U-I=	1000BASE-BX40	GE	IND	40 km	SMF	Yes
GLC-BX40-D-I=	1000BASE-BX40	GE	IND	40 km	SMF	Yes

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Product ID	Specifications	SFP type	Temperature range[1]	Maximum distance	Cable type	Dom support
GLC-BX40-DA-I=	1000BASE-BX40	GE	IND	40 km	SMF	Yes
GLC-BX80-U-I=	1000BASE-BX80	GE	IND	80 km	SMF	Yes
GLC-BX80-D-I=	1000BASE-BX80	GE	IND	80 km	SMF	Yes
GLC-SX-MMD=	1000BASE-SX	GE	EXT	550 m	MMF	Yes
GLC-LH-SMD=	1000BASE-LX/LH	GE	EXT	550m/10km	MMF/SMF	Yes
GLC-ZX-SMD=	1000BASE-ZX	GE	EXT	70 km	SMF	Yes
GLC-T-RGD=[2]	1000BASE-T	GE	IND	100 m	Copper	NA
GLC-BX-U-I=	1000BASE-BX	GE	IND	10km	SMF	Yes
GLC-BX-D-I=	1000BASE-BX	GE	IND	10km	SMF	Yes
ONS-SI-GE-SX=	1000BASE-SX1000BASE-SX	GE	COM	20-550m	SMF	Yes
ONS-SI-GE-LX=	1000BASE-LX1000BASE-LX	GE	COM	550m	SMF/ MMF	Yes
ONS-SI-GE-EX=	1000BASE-EX1000BASE-EX	GE	COM	40km	SMF	Yes
ONS-SI-GE-ZX=	1000BASE-ZX	GE	COM	80km	SMF	Yes
ONS-SE-GE-BXU=	1000BASE-BX10	GE	COM	10km	SMF	Yes
ONS-SE-GE-BXD=	1000BASE-BX10	GE	COM	10km	SMF	Yes
CWDM-SFP-xxxx=[3]	1000BASE-CWDM	GE	COM	80km	SMF	Yes
DWDM-SFP-xxxx=[3]	1000BASE-DWDM	GE	COM	80km	SMF	Yes

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

[2] Degrades PTP performance.

[3] DWDM-SFP-xxxx or CWDM-SFP-xxxx -- 'xxxx' stands for different wavelengths of SFPs, both in case of CWDM and DWDM GE and 10GE SFPs.

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Table 20. Below 10GE SFP+ supports only on IE3500 10GE uplink variants[1]

Product ID	Specifications	SFP type	Temperature range[1]	Maximum distance	Cable type	Dom support
SFP-10G-ER=	10GBASE-ER	10GE	COM	40Km	SMF	Yes
SFP-10G-ER-I=	10GBASE-ER-I	10GE	IND	40Km	SMF	Yes
SFP-10G-SR-I=	10GBASE-SR-I	10GE	IND	26m 33m 66m 82m 300m 400m	MMF	Yes
SFP-10G-LR-X=	10GBASE-LR-X	10GE	EXT	10Km	SMF	Yes Yes
SFP-10G-LR=	10GBASE-LR	10GE	COM	10Km	SMF	Yes
SFP-10G-LR-S=	10GBASE-LR-S	10GE	COM	10Km	SMF	Yes
SFP-10G-LRM=	10GBASE-LRM	10GE	COM	220m 100m 220m 300m	MMF SMF	Yes
SFP-10G-SR=	10GBASE-SR	10GE	COM	26m 33m 66m 82m 300m 400m	MMF	Yes
SFP-10G-BX40D-I=	10G-SFP Bidirectional for 40km	10GE	IND	40Km	SMF	Yes
SFP-10G-BX40U-I=	10G-SFP Bidirectional for 40km	10GE	IND	40Km	SMF	Yes
SFP-10G-BXU-I=	10G-SFP Bidirectional for 10km	10GE	IND	10Km	SMF	Yes
SFP-10G-BXD-I=	10G-SFP Bidirectional for 10km	10GE	IND	10Km	SMF	Yes

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Product ID	Specifications	SFP type	Temperature range[1]	Maximum distance	Cable type	Dom support
SFP-H10G-CU1M=	10GBASE-CU SFP+ Cable 1 Meter, passive	10GE	COM	1m	Twinax cable, passive, 30AWG cable assembly	No
SFP-H10G-CU3M=	10GBASE-CU SFP+ Cable 3 Meter, passive	10GE	COM	3m	Twinax cable, passive, 30AWG cable assembly	No
SFP-H10G-CU5M=	10GBASE-CU SFP+ Cable 5 Meter, passive	10GE	COM	5m	Twinax cable, passive, 30AWG cable assembly	No
SFP-10G-ZR=	10GBASE-ZR	10GE	COM	80Km	SMF	Yes
SFP-10G-ZR-I=	10GBASE-ZR-I	10GE	IND	80Km	SMF	Yes
ONS-SI+-10G-SR=	10GBASE-SR	10GE	COM	26m 33m 66m 82m 300m 400m	SMF	Yes
ONS-SI+-10G-LR=	10GBASE-LR	10GE	COM	10km	SMF/MMF	Yes
ONS-SI+-10G-ER=	10GBASE-ER	10GE	COM	40km	SMF	Yes
ONS-SI+-10G-ZR=	10GBASE-ZR	10GE	COM	80km	SMF	Yes
SFP-10G-T-X=[2]	10GBASE-T	10GE	COM	Upto 30m Upto 100m	Cat 6a/cat7a or better Cat5e/Cat6A/ Cat7 or better	No
SFP-10G-LR10-I=	10GBASE-LR	10GE	COM	10km	MMF/SMF	Yes
SFP-10G-SR-S=	10GBASE-SR	10GE	COM	26m 33m 66m 82m 300m 400m	SMF	Yes

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Product ID	Specifications	SFP type	Temperature range[1]	Maximum distance	Cable type	Dom support
CWDM-SFP10G-xxxx SFP[3]	CWDM 10 Gigabit Ethernet	10GE	COM		SMF	Yes
DWDM-SFP10G-xxxx SFP[3]	DWDM 10 Gigabit Ethernet	10GE	COM		SMF	Yes

[1] If nonindustrial SFPs (EXT, COM) are used, the switch operating temperature must be derated.

[2] Degrades PTP performance.

[3] DWDM-SFP-xxxx or CWDM-SFP-xxxx -- 'xxxx' stands for different wavelengths of SFPs, both in case of CWDM and DWDM GE and 10GE SFPs.

Ordering information

Cisco IE3500 Rugged Series ordered with a Network Advantage license on or after August 23rd, 2025 or upgraded to a Network Advantage license on or after October 20th, 2025 come with a 3-year limited term and 24 endpoints Advantage license of Cisco Cyber Vision at no extra charge. Licenses for additional endpoints can be purchased separately.

AI Troubleshooting for Industrial Networks is currently offered at no charge for a 3-year term with the Cisco Catalyst IE3500 Rugged Series. Refer to Cisco General Terms and Offer Supplemental Terms for more details.

Table 21 lists the ordering information for fixed system, expansion modules and memory that are commonly used with the Cisco IE3500 Rugged Series switches.

Table 21. Ordering Information

Product ID	Description
IE-3500-8T3S-E	IE3500 with 8 GE Copper and 3 GE SFP, Modular, Network Essential
IE-3500-8T3S-A	IE3500 with 8 GE Copper and 3 GE SFP, Modular, Network Advantage
IE-3500-8P3S-E	IE3500 with 8 GE PoE/PoE+, 3 GE SFP, Modular, Network Essential
IE-3500-8P3S-A	IE3500 with 8 GE PoE/PoE+, 3 GE SFP, Modular, Network Advantage
IE-3505-8T3S-E	IE3500 with 8 GE Copper and 3 GE SFP, Adv. Modular, Network Essential
IE-3505-8T3S-A	IE3500 with 8 GE Copper and 3 GE SFP, Adv. Modular, Network Advantage
IE-3505-8P3S-A	IE3500 with 8 GE PoE/PoE+, 3 GE SFP, Adv. Modular, Network Essential
IE-3505-8P3S-A	IE3500 with 8 GE PoE/PoE+, 3 GE SFP, Adv. Modular, Network Advantage
IE-3500-8T3X-E	IE3500 with 8 GE Copper and 3 10G SFP, Modular, Network Essential
IE-3500-8T3X-A	IE3500 with 8 GE Copper and 3 10G SFP, Modular, Network Advantage
IE-3500-8U3X-E	IE3500 with 8 GE PoE/PoE+/4PPoE, 3 10G SFP, Modular, Network Essential

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Product ID	Description
IE-3500-8U3X-A	IE3500 with 8 GE PoE/PoE+/4PPoE, 3 10G SFP, Modular, Network Advantage
IEM-3500-8T=	IE3500 with 8 GE Copper ports, Expansion Module
IEM-3500-8S=	IE3500 with 8 GE SFP Fiber ports, Expansion Module
IEM-3500-16T=	IE3500 with 16 GE Copper ports, Expansion Module
IEM-3500-6T2S=	IE3500 with 6 GE Copper + 2 GE SFP, Expansion Module
IEM-3500-14T2S=	IE3500 with 14 GE Copper + 2 GE SFP, Expansion Module
IEM-3500-8P=	IE3500 with 8 GE PoE/PoE+ Copper ports, Expansion Module
IEM-3500-16P=	IE3500 with 16 GE PoE/PoE+ Copper, Expansion Module
IEM-3500-4MU=	IE3500 with 4 2.5G Copper (4PPoE), Expansion Module
SD-IE-16GB=	IE 16GB SD memory card for IE
STK-RACK-DINRAIL=	19” DIN Rail mount kit
IE3500-NW-A=	Network Advantage License for IE3500 Series, Perpetual
IE3500-DNA-E	Cisco Catalyst Center DNA Essentials license for IE3500/IE3500H Series Switches
IE3500-DNA-E-3Y	IE3500/IE3500H Cisco DNA Essentials, 3 Year Term license
IE3500-DNA-E-5Y	IE3500/IE3500H Cisco DNA Essentials, 5 Year Term license
IE3500-DNA-E-7Y	IE3500/IE3500H Cisco DNA Essentials, 7 Year Term license
IE3500-DNA-A	Cisco Catalyst Center DNA Advantage license for IE3500/IE3500H Series Switches
IE3500-DNA-A-3Y	IE3500/IE3500H Cisco DNA Advantage, 3 Year Term license
IE3500-DNA-A-5Y	IE3500/IE3500H Cisco DNA Advantage, 5 Year Term license
IE3500-DNA-A-7Y	IE3500/IE3500H Cisco DNA Advantage, 7 Year Term license
LIC-IE3500-E-1Y	IE3500 Meraki Co-term Enterprise license, 1 year
LIC-IE3500-E-3Y	IE3500 Meraki Co-term Enterprise license, 3 year
LIC-IE3500-E-5Y	IE3500 Meraki Co-term Enterprise license, 5 year
LIC-IE3500-E-7Y	IE3500 Meraki Co-term Enterprise license, 7 year
LIC-IE3500-A-1Y	IE3500 Meraki Co-term Advantage license, 1 year
LIC-IE3500-A-3Y	IE3500 Meraki Co-term Advantage license, 3 year
LIC-IE3500-A-5Y	IE3500 Meraki Co-term Advantage license, 5 year

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Product ID	Description
LIC-IE3500-A-7Y	IE3500 Meraki Co-term Advantage license, 7 year

Warranty

Five-year limited HW warranty on all IE3500 PIDs and all IE Power Supplies (see table 9 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

Reference links to product-specific environmental sustainability information that is mentioned in relevant sections of this data sheet are provided in the following table:

Sustainability Topic	Reference
Power	
Power specifications and consumption	Table 8. IE3500 power specifications
Environmental Characteristics	
Operating temperature, industry standards, EMC emissions	Table 14. Compliance specifications
Material	
Unit Weight	Table 6. IE3500 physical configurations

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Document history

New or Revised Topic	Described In	Date
Added AI Troubleshooting, Meraki management, PWR-IE240W-AC-IEC=, and PWR-IE400W-AC-IEC=. Clarified BGP-EVPN supported models, supported version for PWR-IE170W-PC-AC=, L2NAT support. Added corrosion compliance specification updates. Reworked Cyber Vision description	Overview, Table 14, Table 1, Ordering information, Table 10, Table 15.	October 2026
Added SD-Access VNI scale row (L3=32, L2=200) to Performance and Scalability table; clarified NetFlow v9 and v10 (IPFIX) export wording in the Security feature list	Performance and Scalability table; Security feature list	May 2026
Typo fix in Network Advantage footnote (Table 12); Jumbo Frames footnote – SGT no longer affects jumbo frame size; Table 10 – added warning that PWR-IE170W-PC-DC is not supported; added EN50125-3 (Railway) and IEC 60068-2-64 (random vibration) to Compliance, Updated with Meraki support information	Across the Datasheet	May 2026
Updated with Cyber Vision and Secure Equipment Access License updates	Across the Datasheet	January 2026
Updated Product Overview, Features and benefits, Ordering information	Table 1	August 2025
Datasheet publication	All sections	June 2025

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