Data sheet
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# Cisco IE3500 Heavy Duty Series

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## Products overview

The Cisco IE3500 Heavy Duty Series (IE3500H) switches deliver high bandwidth, high power and better switching performance in a dustproof and waterproof form factor that can be installed almost anywhere without the need for a specific cabinet. The Cisco IE3500 Heavy Duty Series is designed to support features that enable the industrial network infrastructure to seamlessly accommodate machine vision use cases, AI-driven analysis, virtualization, and robust security for Operational Technology (OT) networks.

### Advanced Features for Operational Technology (OT) Networks

- **TSN Frame-Preemption:** With IEEE802.1Qbu and IEEE802.3br based frame-preemption technology, the IE3500H significantly reduces jitter and delay in transmission of time-sensitive control traffic in OT networks.
- **Enhanced Resiliency:** The IE3500H 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 IE3505H 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 IE3500H 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 IE3500H 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 IE3500H 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 IE3500H 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 IE3500H via **Catalyst Center** for on-premises deployments.
3. **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 IE3500H 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 Network Capabilities

The IE3500H is designed to meet the demands of expanding networks, offering:

- **Two 10G (SFP+) uplink ports** for high-speed connectivity.
- **Up to 60W of PoE power per port**, ensuring support for power-intensive devices.

The Cisco IE3500 Heavy Duty Series is a secure, scalable, and reliable solution, ideal for industrial environments requiring high performance, advanced security, and seamless connectivity.

[1] Supported on IE3505H variants only

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



**Figure 1.**
Cisco IE3500H product family

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## Features and benefits

**Table 1.** IE3500H Features and Benefits

| Feature | Benefit |
|---|---|
| **Heavy-duty design and industry compliance** | • Built for harshest environments and temperature ranges (-40° C to +75° C or -40° F to 167° F)<br>• IP66/IP67 rated, providing protection against dust and submersion in water<br>• Hardened for vibration, shock and surge, electrical noise immunity<br>• Compliant with industrial automation standards; supports Ethernet/IP Common Industrial Protocol (CIP)<br>• Supports Supervisory Control And Data Acquisition (SCADA) protocol, Modbus TCP/IP |
| **Ethernet Interfaces** | • Provides secure access for new high-speed applications in the industrial space<br>• Choice of different port counts from 8 to 24 with a mix of X-code, D-code, SFP ports to choose from<br>• Port speed options range from 100M to 10G<br>• Connects high-speed wireless access points (802.11n, 802.11ac, 802.11ax, 802.11be)<br>• Enables High-Definition (HD) IP cameras and Programmable Logic Controllers (PLC)<br>• Supports precision time protocol as a transparent or a boundary clock.<br>• Delivers multiple resilient rings and redundant ring topology for network configurations |
| **High-density industrial Power over Ethernet (PoE)** | • Supports up to 14 PoE ports with combination or PoE/PoE+/4PPoE ports and total power budget of up to 240W<br>• Fast and Perpetual PoE ensure seamless PoE experience and quick boot of end points<br>• Controls costs by limiting wiring, distribution panels, and circuit breakers<br>• Reduces equipment needs, thus requiring less space and reducing heat dissipation<br>• 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<br>• Support for MACSEC-256 to prevent man-in-the-middle attack<br>• Cisco Cyber Vision included* to identify all connected assets, their profiles, vulnerabilities, communication activities, and your OT security posture<br>• Supports Cisco TrustSec technology-based network segmentation to help reduce the blast radius of an attack by preventing lateral movement of malware and threats<br>• Cyber Vision included* for AI-assisted segmentation policy creation and policy simulation to ensure enforcement will not disrupt operations<br>• 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<br>• Centralized infrastructure management with template-based configuration, network automation and assurance using Cisco Catalyst Center<br>• 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<br>• ThousandEyes enterprise Agent |
| **Fabric support** | • Scale OT networks by enabling fabric over Layer 3 underlay<br>• Support for Cisco Software Defined Access<br>• Extended and Policy Extended node<br>• Fabric Edge node[1]<br>• Support for BGP-EVPN[1] |
| **Swap Drive: zero-configuration replacement** | • True zero-configuration and simple switch replacement when swapping RMA units or system upgrade<br>• No networking expertise required<br>• Helps ensure fast recovery |
| **Full Flexible NetFlow (FNF)** | • Provides enhanced flow and threat visibility<br>• Enables optimization of the network infrastructure, reduces operation costs, and improves capacity planning and security incident detection |
| **Advanced data plane features[1]** | • Parallel Redundancy Protocol (PRP)[2]<br>• High-availability Seamless Redundancy protocol (HSR)[2]<br>• Device Level Ring (DLR)[2] |

[1] Planned to be supported with a future IOS-XE release

[2] Supported on IE3505H variants only

* The included Cyber Vision license is for 24 endpoints and a 3-year term. 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** | IE3500H | 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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**Table 3.** IE3500H Port Configurations

| Product number* | Total ports | 1000/100/10M M12 X-Code ports | 100/10M M12 D-Code ports | 10G/1G SFP ports | mGig/4PPoE (Type 3) ports | PoE budget | Lossless Redundancy Protocol Support | Network Essential/Network Advantage |
|---|---|---|---|---|---|---|---|---|
| **IE-3500H-8T-E** | 8 | 8 | N.A. | -- | -- | -- | N | Network Essentials |
| **IE-3500H-16T-E** | 16 | 16 | N.A. | -- | -- | -- | N | |
| **IE-3500H-24T-E** | 24 | 24 | N.A. | -- | -- | -- | N | |
| **IE-3500H-12FT4T-E** | 16 | 4 | 12 | -- | -- | -- | N | |
| **IE-3500H-20FT4T-E** | 24 | 4 | 20 | -- | -- | -- | N | |
| **IE-3500H-14P2T-E** | 16 | 16 | -- | -- | -- | 240W | N | |
| **IE-3500H-12P2MU2XE** | 16 | 12 | -- | 2 | 2 | 240W | N | |
| **IE-3505H-16T-E** | 16 | 16 | -- | -- | -- | -- | Y | |
| **IE-3500H-8T-A** | 8 | 8 | -- | -- | -- | -- | N | Network Advantage |
| **IE-3500H-16T-A** | 16 | 16 | -- | -- | -- | -- | N | |
| **IE-3500H-24T-A** | 24 | 24 | -- | -- | -- | -- | N | |
| **IE-3500H-12FT4T-A** | 16 | 4 | 12 | -- | -- | -- | N | |
| **IE-3500H-20FT4T-A** | 24 | 4 | 20 | -- | -- | -- | N | |
| **IE-3500H-14P2T-A** | 16 | 16 | -- | -- | -- | 240W | N | |
| **IE-3500H-12P2MU2XA** | 16 | 12 | -- | 2 | 2 | 240W | N | |
| **IE-3505H-16T-A** | 16 | 16 | -- | -- | -- | -- | Y | |

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**Table 4.** Hardware Specifications

| Hardware specifications | All SKUs |
|---|---|
| **Removable storage** | SD card[1] |
| **Alarm[2, 3]** | 1 alarm output relay, 1 alarm input |
| **Console ports[2]** | 1 |
| **Power input** | Mini-change, single power source |

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

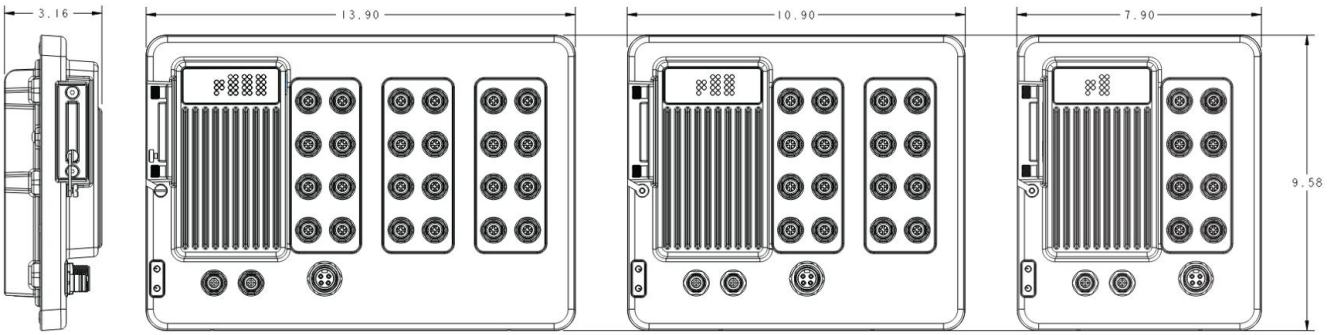
[2] Using an M12 A-coded 5-pin connector.

[3] Relay maximum rating: 30Vdc,1A or 60Vdc, 0.5A.

**Table 5.** Physical Configurations

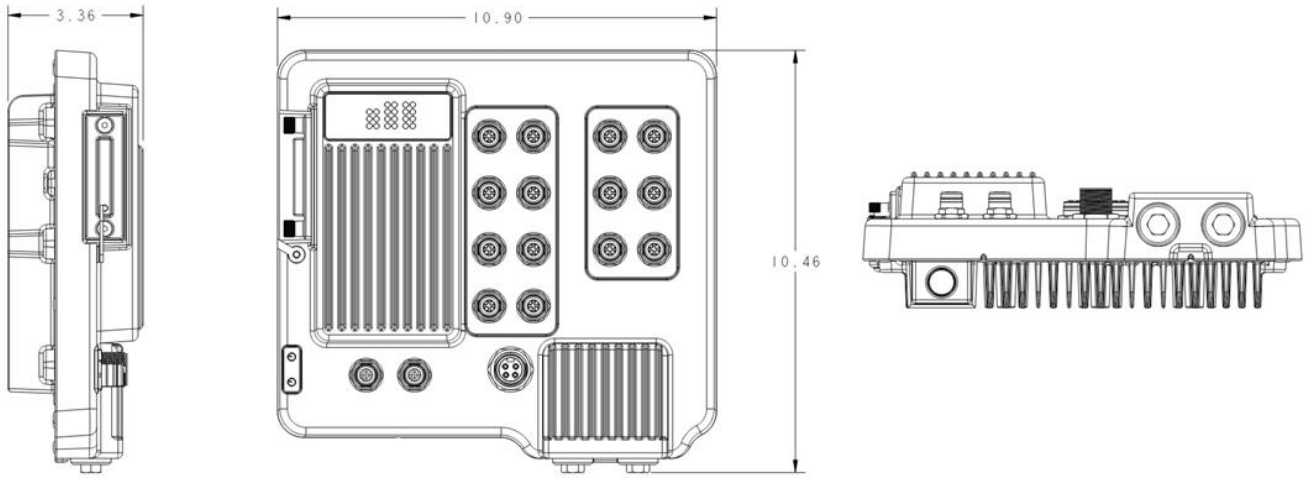
| Physical specifications | IE-3500H-8T | IE-3500H-16T | IE-3500H-24T | IE-3500H-12FT4T | IE-3500H-20FT4T | IE-3500H-14P2T | IE-3500H-12P2MU2X | IE-3505H-16T |
|---|---|---|---|---|---|---|---|---|
| **Dimensions (H x W x D)** | 9.58 x 7.90 x 3.16 in.<br>24.33 x 20.07 x 8.03 cm | 9.58 x 10.90 x 3.16 in.<br>24.33 x 27.69 x 8.03 cm | 9.58 x 13.90 x 3.16 in.<br>24.33 x 35.31 x 8.03 cm | 9.58 x 10.90 x 3.16 in.<br>24.33 x 27.69 x 8.03 cm | 9.58 x 13.90 x 3.16 in.<br>24.33 x 35.31 x 8.03 cm | 9.58 x 10.90 x 3.16 in.<br>24.33 x 27.69 x 8.03 cm | 10.46 x 10.90 x 3.36 in<br>26.57 x 27.69 x 8.53 cm | 9.58 x 10.90 x 3.16 in.<br>24.33 x 27.69 x 8.03 cm |
| **Weight (including mounting bracket)** | 8.45 lb<br>3.83 kg | 11.25 lb<br>5.10 kg | 13.90 lb<br>6.30 kg | 11.25 lb<br>5.10 kg | 13.90 lb<br>6.30 kg | 11.25 lb<br>5.10 kg | 11.40 lb<br>5.17 kg | 11.25 lb<br>5.10 kg |
| **Mounting** | Wall mount | Wall mount | Wall mount | Wall mount | Wall mount | Wall mount | Wall mount | Wall mount |

## IE3500H Product Drawing Images




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### Dimensions of IE-3500H-8T, IE-3500H-16T, IE-3500H-24T, IE-3505H-16T, IE-3500H-12FT4T, IE-3500H-20FT4T, IE-3500H-14P2T




### Dimensions of IE-3500H-12P2MU2X

**Table 6.** Performance and Scalability Features

| Resource | All PIDs |
|---|---|
| **Forwarding rate** | Line rate for all ports for all packet sizes |
| **Number of queues** | 8 |
| **Unicast MAC addresses** | 24000 |
| **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 instances** | 128 |
| **Access Control Entries (PACLs)** | 1536 |
| **Flash (user accessible)** | 5.1 GB |
| **SD card capacity**[1] | 16 GB |
| **Jumbo Frames**[2] | 9198 bytes |

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| Resource | All PIDs |
|---|---|
| **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/SGT.

**Table 7.** Power Specifications

| Power specifications | IE-3500H-8T | IE-3500H-16T | IE-3500H-24T | IE-3500H-12FT4T | IE-3500H-20FT4T | IE-3500H-14P2T[1] | IE-3500H-12P2MU2X[1] | IE-3505H-16T |
|---|---|---|---|---|---|---|---|---|
| **Input voltage range (Absolute)** | 12-48VDC | 12-48VDC | 12-48VDC | 12-48VDC | 12-48VDC | 12-54VDC | 12-54VDC | 12- 48VDC |
| **Input Voltage for PoE** | N.A. | N.A. | N.A. | N.A. | N.A. | 44-54VDC | 44-54VDC | N.A. |
| **Input current @ (9.6V/60V)** | 3.1A | 3.4A | 3.5A | 3.4A | 3.5A | 5.8A | 6A | 3.7A |
| **Power consumption @ (9.6V/60V)**[1] | 38W | 41W | 42W | 41W | 42W | 45W | 45W | 45W |

[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 8 and Table 9 highlight the supported software features for Cisco IE3500H Heavy Duty Series switches

**Table 8.** 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 |
| **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 |

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| Network Essentials License (Perpetual) | Features |
|---|---|
| **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) |
| **Industrial Ethernet** | CIP Ethernet/IP, IEEE 1588 PTP v2 (default and power)[3], PROFINET |
| **TSN** | Frame-Preemption (802.3br, 802.1QBu)[1] |
| **Redundancy** | Resilient Ethernet Protocol (REP) ring, PROFINET-Multi Ring Protocol (MRP), REP Fast, REP Segment ID Auto-discovery[1], REP ZTP Support, Parallel redundancy protocol (PRP)[2], PTP over PRP[2], PTP over HSR[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 |
| **Industrial Management** | Layer 2 switching with 1:1 switch Network Address Translation (L2NAT) for 1G/10G uplink ports[4] |
| **IOx** | Container (Native Docker), Cisco Cyber Vision, Cisco ThousandEyes |

[1] Planned to be supported with a future IOS-XE release

[2] Supported on IE3505H variants only

[3] Mgig ports on IE-3500H-12P2MU2X does not support PTP.

[4] 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 9.** Key Supported software features (Network Advantage License)

| 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) |

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| Network Advantage License (Perpetual)[1] | Features |
|---|---|
| **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.

**Table 10.** 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 11.** Compliance Specifications[1]

| Description | Specification |
|---|---|
| **ITE safety standards/ certifications** | UL/cUL Listing to UL/CSA 60950-1<br>UL/cUL Listing to UL/CSA 62368-1<br>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<br>UL 50E, Type 4X rating |
| **EMC emissions and immunity compliance** | Emissions (Class A):<br>FCC 47 CFR Part 15 subpart B<br>ICES-003<br>EN 55011<br>EN 55032/ CISPR 32<br>AS/NZS CISPR 32<br>CNS15936<br>Immunity:<br>EN55035/CISPR35<br>AS/NZS CISPR35<br>KS C 9832 |
| **Shock and vibration** | IEC 60068-2-6 Vibration: IEC 60068-2-6,<br>IEC 60255-21-1 (Vibration) Class 1 Vibration Test<br>IEC 60068-2-27 (Shock)<br>IEC 60068-2-31 (Shock)<br>IEC 60068-2-32 (Shock)<br>IEC 60255-21-2 (Shock)<br>IEC 60068-2-64 (Vibration)<br>IEC 60255-21-3 (Seismic) |
| **Industry standards** | EN 61000-6-1 Immunity standards for light industrial ENV<br>EN 61000-6-2 Immunity standards for industrial ENV<br>EN 61000-6-4- Emission standard industrial ENV<br>EN 61326-1 Industrial control<br>ODVA Industrial Ethernet/IP<br>CC-Link IE (Field/Control/TSN Class A) |
| **Automotive** | UN ECE R10<br>E-Mark certification |

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| Description | Specification |
| --- | --- |
| **Railway** | EN50155:2021 (clauses 13.4.1-6, 13.4.9, 13.4.10, 13.4.13)2<br>EN50121-3-2:2016+A1:2019, EN50125-3<br>EN50121-4:2016+A1:2019<br>EN61373:2010/AC:2017 (in progress)<br>EN50124-1:2017<br>AREMA C&S Manual Section 11, 19<br>EN50153:2020 Clause 8.3<br>EN45545-2 |
| **Corrosive testing** | IEC 60068-2-52 Salt mist<br>IEC 60068-2-60 Flowing mixed gas corrosion |
| **Humidity** | IEC 60068 -2-3<br>IEC 60068-2-30<br>Relative humidity: 5% to 95% noncondensing |
| **Operating temperature, environment, reliability** | -40°C to +75°C (-40F to 167F) with 200 LFM airflow<br>-40°C to +70°C (-40F to 158F) with 40 LFM airflow<br>-40°C to + 60°C (-40F to 140F) with 0 LFM airflow<br>-40°C to +85°C (-40F to 185F) (type tested to +85°C for 16 hours)<br>IEC 60068-2-1<br>IEC 60068-2-2<br>Altitude: up to 15,000 feet, no derating<br>Altitude: up to 40,000 feet, 25°C Max |
| **Storage temperature** | -40°C to +85°C (-40F to 185F)<br>IEC 60068-2-14<br>Altitude: Up to 40,000 feet (12.19 km) |
| **Environment** | RoHS, WEEE, REACH compliant |

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

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**Table 12.** Mean Time Between Failures (MTBF) information – Telecordia Issue 4

| Product detail | MTBF (in hours) |
|---|---|
| **IE-3500H-8T** | 473,949 Hrs |
| **IE-3500H-16T** | 406,109 Hrs |
| **IE-3500H-24T** | 387,020 Hrs |
| **IE-3500H-12FT4T** | 412,063 Hrs |
| **IE-3500H-20FT4T** | 367,056 Hrs |
| **IE-3500H-14P2T** | 371,635 Hrs |
| **IE-3500H-12P2MU2X** | 352,809 Hrs |
| **IE-3505H-16T** | 404,209 Hrs |

**Table 13.** Industry standards

| Descriptions | Specifications | |
|---|---|---|
| **IEEE standards** | IEEE 802.1D MAC Bridges, STP<br>IEEE 802.1p Layer 2 COS prioritization<br>IEEE 802.1q VLAN<br>IEEE 802.1s MSTP<br>IEEE 802.1w RSTP<br>IEEE 802.1X Port Access Authentication<br>IEEE 802.1AB LLDP<br>IEEE 802.3ad Link Aggregation (LACP) | IEEE 1588v2 PTP Precision Time Protocol<br>IEEE 802.3x full duplex on 10BASE-T<br>IEEE 802.3 10BASE-T specification<br>IEEE 802.3u 100BASE-TX specification<br>IEEE 802.3ab 1000BASE-T specification<br>IEEE 802.3z 1000BASE-X specification<br>IEEE 802.3af Power over Ethernet<br>IEEE 802.3at Power over Ethernet<br>IEEE 802.3bt Type 3 Power over Ethernet |
| **RFC compliance** | RFC 768: UDP<br>RFC 783: TFTP<br>RFC 791: IPv4 protocol<br>RFC 792: ICMP<br>RFC 793: TCP<br>RFC 826: ARP<br>RFC 854: Telnet<br>RFC 959: FTP<br>RFC 1157: SNMPv1<br>RFC 1901, 1902-1907 SNMPv2<br>RFC 2273-2275: SNMPv3<br>RFC 2571: SNMP Management<br>RFC 1166: IP Addresses | CISCO-IF-EXTENSION-MIB<br>CISCO-IMAGE-MIB<br>CISCO-MEMORY-POOL-MIB<br>CISCO-PING-MIB<br>SNMP-TARGET-EXT-MIB<br>IF_MIB<br>ENTITY-MIB<br>LLDP-EXT-PNO-MIB<br>NOTIFICATION-LOG-MIB<br>OLD-CISCO-CPU-MIB<br>ETHERLIKE-MIB<br>OLD-CISCO-SYSTEM-MIB<br>OLD-CISCO-MEMORY-MIB |

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| Descriptions | Specifications | |
|---|---|---|
| | RFC 1256: ICMP Router Discovery | RMON-MIB |
| | RFC 1305: NTP | SNMP-COMMUNITY-MIB |
| | RFC 1492: TACACS+ | SNMP-FRAMEWORK-MIB |
| | RFC 1493: Bridge MIB Objects | SNMP-PROXY-MIB |
| | RFC 1534: DHCP and BOOTP interoperation | SNMP-MPD-MIB |
| | RFC 1542: Bootstrap Protocol | SNMP-NOTIFICATION-MIB |
| | RFC 1643: Ethernet Interface MIB | SNMP-TARGET-MIB |
| | RFC 1757: RMON | SNMP-USM-MIB |
| | RFC 2068: HTTP | CISCO-DATACOLLECTION-MIB |
| | RFC 2131, 2132: DHCP | CISCO-CABLE-DIAG-MIB |
| | RFC 2236: IGMP v2 | CISCO -PORT-SECURITY-MIB |
| | RFC 3376: IGMP v3 | BULK_FILE_MIB |
| | RFC 2474: DiffServ Precedence | CISCO-ENTITY-ALARM-MIB |
| | RFC 3046: DHCP Relay Agent Information Option | SNMP-VIEW-BASED-ACM-MIB |
| | RFC 3580: 802.1x RADIUS | CISCO-MAC-AUTH-BYPASS-MIB |
| | RFC 4250-4252 SSH Protocol | CISCO-AUTH-FRAMEWORK-MIB |
| | | CISCO-BRIDGE-Ext-MIB |
| | | SNMPv2-MIB |
| | | CISCO-ENTITY-VENDORTYPE-OID-MIB |
| | | CISCO-PRODUCTS-MIB |
| | | IP-FORWARD-MIB |
| | | BGP-CISCO-BGP-MIBv2 |

**Table 14.** MIB Object table

| | |
|---|---|
| **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 |
| | LLDP-MIB |
| | CiscoMACNotification-MIB |
| | CISCO-CONFIG-COPY-MIB |
| | LLDP-MED-MIB |
| | Bridge-MIB |

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| | |
|---|---|
| | CISCO-CAR-MIB<br>CISCO-LAG-MIB<br>CISCO-SYSLOG-MIB<br>CISCO-FTP-CLIENT-MIB<br>CISCO-VLAN-IFTABLE-RELATIONSHIP-MIB<br>CISCO-VLAN-MEMBERSHIP-MIB<br>CISCO-PORT-STORM-CONTROL-MIB<br>CISCO-CDP-MIB<br>CISCO-IP-STAT-MIB<br>CISCO-STP-EXTN-MIB<br>CISCO-VTP-MIB<br>IEEE8023-LAG-MIB<br>SMON-MIB<br>CISCO-ACCESS-ENVMON-MIB<br>CISCO-CALLHOME-MIB<br>CISCO-CONFIG-MAN-MIB<br>CISCO-FLASH-MIB<br>CISCO-ENTITY-SENSOR-MIB<br>IP-MIB<br>CISCO-PAGP-MIB |

**Table 15.** Below GE SFPs supported on IE3500H-12P2MU2X[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 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 |

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| Product ID | 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=[2]** | 1000BASE-T | GE | EXT | 100 m | 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 |
| **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-SX | GE | COM | 20-550 m | SMF | Yes |
| **ONS-SI-GE-LX=** | 1000BASE-LX/LH | GE | COM | 550 m/10 km | MMF/SMF | Yes |
| **ONS-SI-GE-EX=** | 1000BASE-EX | GE | COM | 40 km | SMF | Yes |
| **ONS-SI-GE-ZX=** | 1000BASE-ZX | GE | COM | 70 km | SMF | Yes |
| **ONS-SE-GE-BXU=** | 1000BASE-BX | GE | COM | 10km | SMF | Yes |
| **ONS-SE-GE-BXD=** | 1000BASE-BX | 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 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.

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**Table 16.** Below 10GE SFP+ supported on IE3500H-12P2MU2X[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<br>33m<br>66m<br>82m<br>300m<br>400m | MMF | Yes |
| **SFP-10G-LR-X=** | 10GBASE-LR-X | 10GE | EXT | 10Km | SMF | Yes<br>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<br>100m<br>220m<br>300m | MMF<br>SMF | Yes |
| **SFP-10G-SR=** | 10GBASE-SR | 10GE | COM | 26m<br>33m<br>66m<br>82m<br>300m<br>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<br>33m<br>66m<br>82m<br>300m<br>400m | MMF | Yes |
| **ONS-SI+-10G-LR=** | 10GBASE-LR-S | 10GE | COM | 10Km | SMF | 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-CU | 10GE | COM | 30m-100m | Cat5e | No |
| **SFP-10G-LR10-I=** | 10GBASE-LR | 10GE | COM | 10Km | MMF/SMF | Yes |
| **SFP-10G-SR-S=** | 10GBASE-SR | 10GE | COM | 26m<br>33m<br>66m<br>82m<br>300m<br>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 Heavy Duty Series switches ordered with a Network Advantage license on or after October 1st, 2025 or upgraded from a Network Essential 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 Heavy Duty Series. Refer to Cisco General Terms and Offer Supplemental Terms for more details.

**Table 17.** Ordering information

| Product ID | Description |
|---|---|
| **IE-3500H-8T-E** | IE3500 Heavy Duty with 8 GE X-Code M12 interfaces, IP67, Network Essentials |
| **IE-3500H-16T-E** | IE3500 Heavy Duty with 16 GE X-Code M12 interfaces, IP67, Network Essentials |
| **IE-3500H-24T-E** | IE3500 Heavy Duty with 24 GE X-Code M12 interfaces, IP67, Network Essentials |
| **IE-3500H-12FT4T-E** | IE3500 Heavy Duty with 12 FE D-code and 4 GE X-Code M12 interfaces, IP67, Network Essentials |
| **IE-3500H-20FT4T-E** | IE3500 Heavy Duty with 20 FE D-code and 4 GE X-Code M12 interfaces, IP67, Network Essentials |
| **IE-3500H-14P2T-E** | IE3500 Heavy Duty with 14 GE X-Code PoE/PoE+ and 2 GE X-Code M12 interfaces, IP67, Network Essentials |
| **IE-3500H-12P2MU2XE** | IE3500 Heavy Duty with 2 10G SFP+, 2 mGig UPoE X-Code and 12 GE X-Code PoE/PoE+ interfaces, 240W Power Budget, IP67, Network Essentials |
| **IE-3505H-16T-E** | IE3500 Heavy Duty with 16 GE X-Code M12 interfaces, Advance features, IP67, Network Essentials |
| **IE-3500H-8T-A** | IE3500 Heavy Duty with 8 GE X-Code M12 interfaces, IP67, Network Advantage |
| **IE-3500H-16T-A** | IE3500 Heavy Duty with 16 GE X-Code M12 interfaces, IP67, Network Advantage |

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| Product ID | Description |
|---|---|
| **IE-3500H-24T-A** | IE3500 Heavy Duty with 24 GE X-Code M12 interfaces, IP67, Network Advantage |
| **IE-3500H-12FT4T-A** | IE3500 Heavy Duty with 12 FE D-code and 4 GE X-Code M12 interfaces, IP67, Network Advantage |
| **IE-3500H-20FT4T-A** | IE3500 Heavy Duty with 20 FE D-code and 4 GE X-Code M12 interfaces, IP67, Network Advantage |
| **IE-3500H-14P2T-A** | IE3500 Heavy Duty with 14 GE X-Code PoE/PoE+ and 2 GE X-Code M12 interfaces, IP67, Network Advantage |
| **IE-3500H-12P2MU2XA** | IE3500 Heavy Duty with 2 10G SFP+, 2 mGig UPoE X-Code and 12 GE X-Code interfaces, 240W Power Budget, IP67, Network Advantage |
| **IE-3505H-16T-E** | IE3500 Heavy Duty with 16 GE X-Code M12 interfaces, Advance features, IP67, Network Advantage |
| **SD-IE-16GB** | IE 16GB SD Memory card |
| **CAB-CONSOLE-M12=** | Console Cable 6ft with M12 and DB9F for Cisco IE3500 Heavy Duty Series Switch |
| **CW-SFP-KIT1** | SFP Installation Kit for IE-3500H-12P2MU2X |
| **IE3500-NW-A=** | Cisco 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 |

* 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.

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## Connectors and cabling

**Table 18.** Connectors and Cabling

| Type | Options |
|---|---|
| **Data Cables** | • Copper 100Base-T M12 D coded 4-Pin connector<br>• Copper GE M12 X coded-8-Pin- connector<br>• 2x SFP (fiber) 1G/10G interfaces<br>• Note: M25 adapters shall be used with SFP interfaces to meet IP67 rating. |
| **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<br>https://www.molex.com/customer.html?supplierPN=1300060737<br>• 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<br>https://www.molex.com/customer.html?supplierPN=1300100863<br>• 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# 130006-0223<br>https://www.molex.com/customer.html?supplierPN=1300060223<br>• Power cord, IP67 DC power supply input: 2 pole female power cord to open for input DC connector<br>https://www.molex.com/customer.html?supplierPN=1300060091 |

## Warranty information

There is a 5-year limited hardware warranty on all Cisco IE3500 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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| 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 |

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## Document history

| New or Revised Topic | Described In | Date |
|---|---|---|
| **Added AI Troubleshooting. Updated Cyber Vision description. Clarified L2NAT support.** | Overview, Table 1, Ordering information, Table 9. | 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 |
| **Added EN50125-3 (Railway) certification** | Across the Datasheet | May 2026 |
| **Updated with Cyber Vision and Secure Equipment Access License updates, PoE Input Voltage and Misc minor updates** | Across the datasheet | January 2026 |
| **Datasheet publication** | All sections | June 2025 |

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