

Cisco Catalyst ESS9300 Embedded Series Switches

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The Cisco® Catalyst® ESS9300 Embedded Series Switches are built for secure, high-bandwidth networking and are optimized for size, weight, and power to operate in extreme environments.

Products overview

The Cisco Catalyst ESS9300 Embedded Series Switch revolutionizes Cisco's embedded networking portfolio with high-speed and security capabilities. These 1GE/10GE embedded switches are optimized to meet specialized form-factor, ruggedization, port density, and power needs of many applications requiring customization and complements Cisco's off-the-shelf Industrial Ethernet switching portfolio.

The small-form-factor, board configuration options, and optimized power consumption provide Cisco partners and integrators the flexibility to design custom solutions for defense, oil and gas, transportation, mining, and other industries. With its zeroization, secure boot, and physical alarm relay capabilities, the embedded switch has the crucial security features needed to protect networks from cyber and physical threats. The ESS9300 runs the trusted and feature-rich Cisco IOS® XE Software, allowing Cisco partners and integrators to offer their customers the familiar Cisco IOS Command-Line Interface (CLI) and management experience on their ESS9300 series – based solutions. Additionally, Cisco IOS® XE Software also offers a powerful graphical management interface that is built-in, called WebUI, for an even more enhanced user experience.

The Cisco Catalyst ESS9300 Embedded Switch is available in two configurations to meet the diverse operational needs:

- The Cisco Catalyst ESS9300 Embedded Switch in small form factor (ESS-9300-10X-E) is a ruggedized 10G embedded platform designed for embedded applications for tactical, outdoor, and mobile installations requiring low power, small size, and ruggedization.

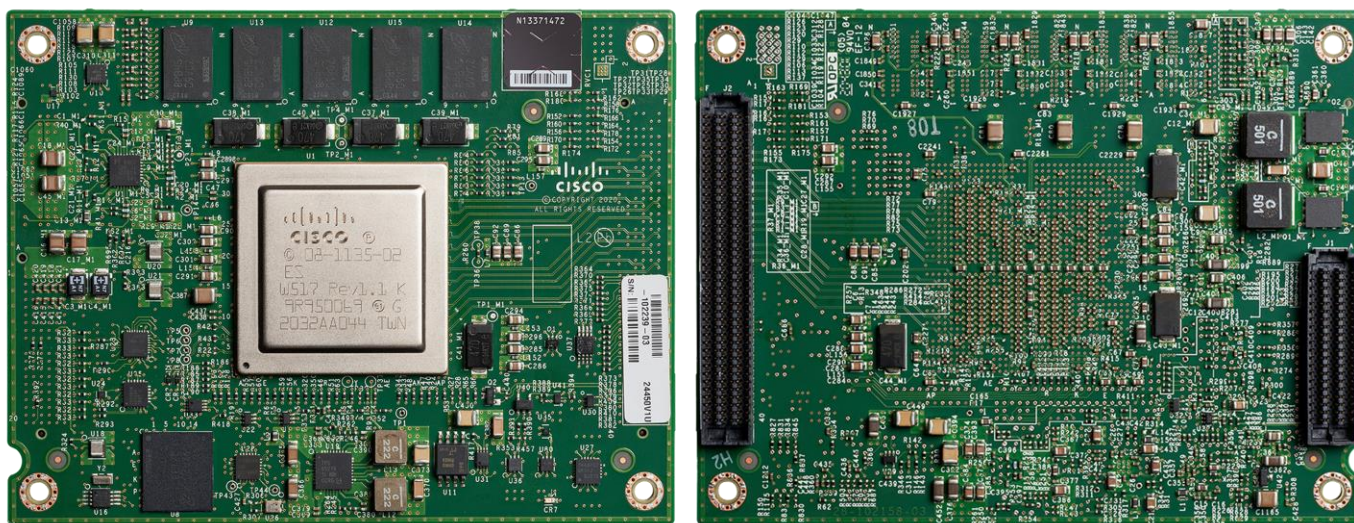


Figure 1. Cisco Catalyst ESS9300 Embedded Switch in small form factor (ESS-9300-10X-E)

- Single board
- Small form-factor board size (110 x 85 mm; 4.3 x 3.3 in.).
- 10 ports of 10G: Enhanced Small Form-Factor Pluggable (SFP+).
- Ethernet management port (optional).
- RS-232 and USB console.
- Common +3.3VDC and +5VDC power inputs.
- Advanced next-generation Cisco IOS XE software.
- Low power – 35W (typical).
- The Cisco Catalyst ESS9300 Embedded Switch in VPX form factor (ESS-9300-8X16T-W-A) is a ruggedized 1G/10G embedded platform designed for use in [Sensor Open Systems Architecture \(SOSA\)](#) and [C5ISR/EW Modular Open Suite of Standards \(CMOSS\)](#) aligned system architectures.

CMOSS is a suite of standards to support the reduction of the size, weight and power of C5ISR and EW systems while increasing the flexibility and adaptability of these systems. [OpenVPX](#) is a part of CMOSS standards standardized platform for assembling modular computing systems, frequently referred to as VPX, and is the successor to the widely deployed VME standard.

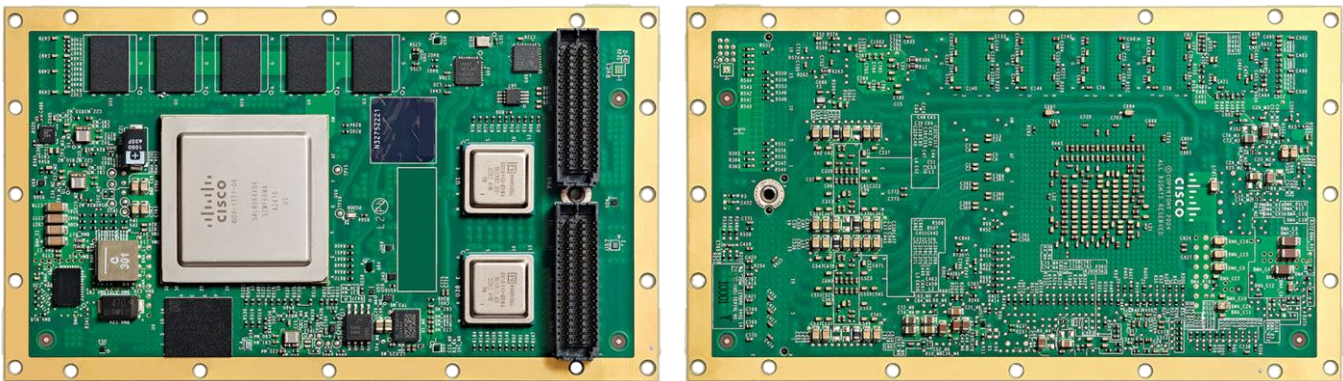


Figure 2.
Cisco Catalyst ESS9300 Embedded Switch in VPX form factor (ESS-9300-10X16T-W-A)

The Cisco Catalyst ESS9300 Embedded Switch in VPX form factor is designed to act as a Mezzanine switch card in VPX3-623 module (as shown in Figure 3 below) for VPX system developed by Cisco partner Curtiss-Wright. This is the first time that Cisco switching will be available in the VPX form factor.

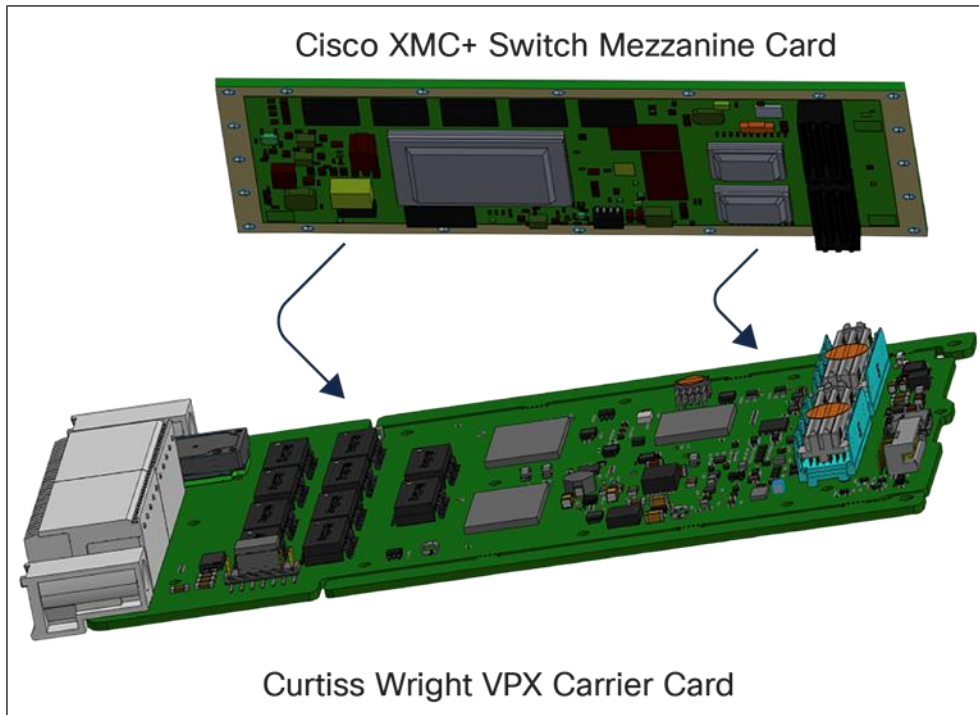


Figure 3.

The ESS-9300-8X16T-W-A mezzanine card plugs into the Curtiss Wright VPX3-623 carrier module to form a complete OpenVPX card for the 3U chassis.

- Single board acting as a XMC+ mezzanine card in Curtis Wright VPX3-623, conforming to VITA 88
- Board size 130 x 74 mm (5.1 x 2.9 in.)
- Copper and Optical Connectivity
- 2x Control Plane 10GBASE-KR interfaces
- 16x Gigabit 1000BASE-T interfaces – 10 ports usable on the Curtiss-Wright VPX3-623 carrier module
- 6x fixed optical 10GBASE-SR interfaces on rear VPX connector
- Network Advantage features

Primary features and its benefits

Feature and its Benefits	ESS-9300-10X-E	ESS-9300-8X16T-W-A
1G and 10G links	<ul style="list-style-type: none"> 10G links enable high-quality video and data communications for the next generation of bandwidth-intensive use cases such as tactical data centers, HD video surveillance, self-driving vehicles, and future-readiness. 	<ul style="list-style-type: none"> 10G and 1G links to support Network connectivity for SOSA and CMOSS. This allows military applications for Mobile ground and airborne tactical data centers, Joint All Domain Command and Control (JADC2) and Joint Warfighting Cloud Capability (JWCC) network integration.
Switching features	<p>Enables third-party integrators to offer rich enterprise-grade Layer 2 switching feature set to end customers.</p> <p>Layer 3 features available with network advantage license upgrade.</p>	Ships with layer 2 and layer 3 features.
Robust industrial design	Small form factor packing 10G allows integrators to pack higher port density into a compact form factor and build custom solutions that can withstand harsh environments (temperature range of -40° to 85° C, -40° to 185° F).	
Security	<ul style="list-style-type: none"> Enterprise-grade Cisco IOS XE switching security features help ensure highly secure voice, video, and data communications. Secure boot and Cisco anti-counterfeit technology ensure authenticity for both hardware and software. Zeroization is a feature that is important to the defense and government intelligence communities to ensure that network access and security credentials are not compromised by theft of hardware. Alarm relay contacts can also be used to ensure physical integrity of the device enclosure. 	
Manageability	Facilitates easy deployment and rapid configuration with easy-to-use Web UI and familiar Cisco CLI.	
Quality of service	Allows customers to prioritize flows and helps ensure that mission-critical flows are not affected by low-priority traffic.	

Hardware specifications

Description	ESS-9300-10X-E	ESS-9300-8X16T-W-A
Interfaces	<ul style="list-style-type: none"> 10 ports of 10G /1G (approved SFP+/SFPs), 1 management port of 10/100/1000BASE-T RS-232 and USB console 	<ul style="list-style-type: none"> 2x Control Plane 10GBASE-KR interfaces 6x fixed optical 10GBASE-SR interfaces on rear VPX connector 16x Gigabit 1000BASE-T interfaces – 10 ports usable on the Curtiss-Wright VPX3-623 carrier module LVC MOS console (3.3V)
Memory	<ul style="list-style-type: none"> 4 GB DDR4 DRAM 8 GB onboard eMMC flash storage (2.5 GB usable space) 	
Power supply	3.3VDC and +5VDC (+/-3%)	3.3VDC and +12VDC (+/-3%)
Power consumption	35W (typical)	<35W (typical) (Depends on Curtiss Wright carrier configuration)

Description	ESS-9300-10X-E	ESS-9300-8X16T-W-A
Connectors	SEARAY Connector Series from SAMTEC: <ul style="list-style-type: none"> • SEAF-20-05.0-S-06-2-A-K 120-pin (J1) • SEAF-40-05.0-S-06-2-A-K 240-pin (J2) 	VITA 88 Connectors
Dimensions (W x D)	110 x 85 mm (4.3 x 3.3 in.)	130 x 74 mm (5.1 x 2.9 in.)
Weight	88 g (3.1 oz)	<200g (<7 oz)

Network Scale specifications

Features	ESS-9300-10X-E and ESS-9300-8X16T-W-A
Forwarding rate	Line rate for all ports and all packet sizes
Number of queues	8
Number of VRF¹	32
MAC addresses	16,000
VLAN IDs	1000
Internet Group Management Protocol (IGMP) groups	1000
Number of Spanning Tree Protocol (STP) instances	128

¹ Requires Network Advantage license.

Software features

Network Essentials License	ESS-9300-10X-E and ESS-9300-8X16T-W-A
Layer 2 switching	IEEE 802.1Q VLAN Trunking, 802.1W Spanning Tree Rapid Reconfiguration, 802.1ab LLDP (Link Layer Discovery Protocol), 802.1s - Multiple Spanning Tree Protocol (MSTP) Standard Compliance, 802.1s VLAN Multiple Spanning Trees, 802.1Q Tunneling, 802.3 standard, Unidirectional Link Detection (UDLD), Cisco Discovery Protocol, unicast MAC filter, VLAN Trunk Protocol (VTP) v2 and v3, EtherChannel, voice VLAN, Per-VLAN Spanning Tree Plus (PVST+), and Rapid STP (RSTP)
Multicast	IGMPv1, v2, v3 snooping, IGMP filtering, IGMP querier
Management	Web UI, MIB, SmartPort, Simple Network Management Protocol (SNMP), syslog, Dynamic Host Configuration Protocol (DHCP) server, Switched Port Analyzer (SPAN) session (1), Full Flexible NetFlow (FnF), Network Time Protocol (NTP)

Network Essentials License	ESS-9300-10X-E and ESS-9300-8X16T-W-A
Security	Zeroization, secure boot, port security, IEEE 802.1X, DHCP snooping, dynamic Address Resolution Protocol (ARP) inspection, IP Source Guard, private VLAN, MAC authentication bypass, 802.1X multidomain authentication, storm control - unicast, multicast, broadcast, Secure Copy (SCP), Secure Shell (SSH), SNMPv3, TACACS+, RADIUS server/client, MAC address notification, Bridge Protocol Data Unit (BPDU) guard, hardware physical alarm inputs (2), and relay output (1), MACsec-128 (are supported on all 10x10G ports simultaneously at line rate).
Certificate Based MACsec Note: Network Advantage license required when using 256-bit MACsec	Certificate-based MACsec Encryption feature uses 802.1X port-based authentication with Extensible Authentication Protocol-Transport Layer Security (EAP-TLS) to carry Certificates for ports where MACsec encryption is required This feature makes it feasible to manage the key at the centralized server over preshared key-based MACsec Uses MACsec and the MACsec Key Agreement (MKA) Protocol
Quality of Service (QoS)	Ingress policing, rate limit, egress queuing/shaping, auto QoS
Layer 2 IPv6	IPv6 host support, HTTP over IPv6, SNMP over IPv6

Network Advantage License	ESS-9300-10X-E and ESS-9300-8X16T-W-A
IP routing	OSPF (V2 and V3), RIP (V1 and V2), ISIS (for IPv4 and IPv6), EIGRP (for IPv4 and IPv6), PBR (Policy Based Routing), BGP
Virtualization	VRF-lite
Security	MACsec-256 (are supported on all 10x10G ports simultaneously at line rate)
IP Multicast	PIM Sparse Mode (PIM-SM), PIM dense mode (PIM-DM) and PIM Sparse dense mode
High Availability	Bidirectional Forwarding Detection (BFD) echo mode, HSRP (IPv4 and IPv6), VRRP (IPv4 and IPv6)

Note: Please refer to the “New Features for Cisco Catalyst IE and ESS Switches” section of each of the software release notes for a more complete list of features. The above tables attempt to provide the most popular features. Referring to the release notes also has the benefit of specifying the minimum required release to support the desired feature.

The main page for release notes is here: <https://www.cisco.com/c/en/us/support/ios-nx-os-software/ios-xe-17/products-release-notes-list.html>.

Please be sure to select the titles that begin with, “Release Notes for Cisco Catalyst IE9300 Rugged Series Switches, and Cisco Catalyst ESS9300 Embedded Series Switch.

Environmental specifications

Specification	ESS-9300-10X-E and ESS-9300-8X16T-W-A
Industrial-grade board component temperature	-40° to 85° C (-40° to 185° F) component local ambient temperature specification
Operating temperature	-40° to 85° C (-40° to 185° F). Temperature range of a completed solution depends on the thermal design characteristics of the enclosure used by the system integrator
Storage temperature	-40° to 85° C (-40° to 185° F)
Operating altitude	4.572 km (15,000 ft) -40° to 74° C (-40° to 165° F) 12.2 km (40,000 ft) -40° to 25° C (-40° to 77° F)
Nonoperating altitude	12.2 km (40,000 ft)
Mean Time Between Failures (MTBF)	ESS-9300-10X-E - Ground, fixed, controlled: 48.2 years ESS-9300-8X16T-W-A - TBD

Management and standards

Descriptions	ESS-9300-10X-E and ESS-9300-8X16T-W-A Specifications
SNMP MIB objects	BRIDGE-MIB CISCO-ACCESS-ENVMON-MIB CISCO-AUTH-FRAMEWORK-MIB CISCO-BRIDGE-EXT-MIB CISCO-BULK-FILE-MIB CISCO-CALLHOME-MIB CISCO-CAR-MIB CISCO-CDP-MIB CISCO-CONFIG-COPY-MIB CISCO-CONFIG-MAN-MIB CISCO-DATA-COLLECTION-MIB CISCO-DHCP-SNOOPING-MIB CISCO-ENTITY-VENDORTYPE-OID-MIB CISCO-ENVMON-MIB CISCO-ERR-DISABLE-MIB CISCO-FLASH-MIB CISCO-FTP-CLIENT-MIB CISCO-IF-EXTENSION-MIB CISCO-IGMP-FILTER-MIB CISCO-IMAGE-MIB CISCO-IP-STAT-MIB

Descriptions	ESS-9300-10X-E and ESS-9300-8X16T-W-A Specifications
	CISCO-LAG-MIB
	CISCO-LICENSE-MGMT-MIB
	CISCO-MAC-AUTH-BYPASS-MIB
	CISCO-MAC-NOTIFICATION-MIB
	CISCO-MEMORY-POOL-MIB
	CISCO-PAE-MIB
	CISCO-PING-MIB
	CISCO-PORT-QOS-MIB
	CISCO-PORT-SECURITY-MIB
	CISCO-PORT-STORM-CONTROL-MIB
	CISCO-PRIVATE-VLAN-MIB
	CISCO-PROCESS-MIB
	CISCO-PRODUCTS-MIB
	CISCO-ENTITY-ALARM-MIB
	CISCO-SNMP-TARGET-EXT-MIB
	CISCO-STP-EXTENSIONS-MIB
	CISCO-SYSLOG-MIB
	CISCO-UDLD-MIB
	CISCO-VLAN-IFTABLE-RELATIONSHIP-MIB
	CISCO-VLAN-MEMBERSHIP-MIB
	CISCO-VTP-MIB
	ENTITY-MIB
	ETHERLIKE-MIB
	HC-RMON-MIB
	IEEE8021-PAE-MIB
	IEEE8023-LAG-MIB
	IF-MIB
	LLDP-EXT-MED-MIB
	LLDP-MIB
	NOTIFICATION-LOG-MIB
	OLD-CISCO-CPU-MIB
	OLD-CISCO-SYSTEM-MIB
	RMON-MIB
	SMON-MIB
	SNMP-COMMUNITY-MIB
	SNMP-FRAMEWORK-MIB
	SNMP-MPD-MIB
	SNMP-NOTIFICATION-MIB

Descriptions	ESS-9300-10X-E and ESS-9300-8X16T-W-A Specifications
	SNMP-PROXY-MIB SNMP-TARGET-MIB SNMP-USM-MIB SNMP-VIEW-BASED-ACM-MIB SNMPV2-MIB 802.1X MIB
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 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 802.1AE MAC Security (MACsec)
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 1492: TACACS+

Descriptions	ESS-9300-10X-E and ESS-9300-8X16T-W-A Specifications
	RFC 1493: Bridge MIB Objects 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 RFC4884 - Extended ICMP to Support Multi-part Messages

Optics supported in ESS-9300-10X-E

Part number	Specification	SFP type	Max distance	Cable type	Temp range*	DOM support
GLC-SX-MM-RGD=	1000BASE-SX	GE	550m	MMF	IND	Yes
GLC-LX-SM-RGD=	1000BASE-LX/LH	GE	550m/10km	MMF/SMF	IND	Yes
GLC-SX-MMD=	1000BASE-SX	GE	550m	MMF	EXT	Yes
GLC-LH-SMD=	1000BASE-LX/LH	GE	550m/10km	MMF/SMF	EXT	Yes
GLC-BX-D=	1000BASE-BX10	GE	10km	SMF	COM	Yes
GLC-BX-U=	1000BASE-BX10	GE	10km	SMF	COM	Yes
GLC-ZX-SM-RGD=	1000BASE-ZX	GE	Approx. 70km	SMF	IND	Yes
GLC-EX-SMD=	1000BASE-EX	GE	40km	SMF	EXT	Yes
SFP-GE-S=	1000BASE-SX	GE	550m	MMF	EXT	Yes
GLC-SX-MM=	1000BASE-SX	GE	550m	MMF	COM	No
GLC-T-RGD=	1000BASE-T	GE	100m	Copper	IND	NA
GLC-LH-SM=	1000BASE-LX/LH	GE	550m/10km	MMF/SMF	COM	No
GLC-TE=	1000BASE-T	GE	100m	Copper	EXT	NA
GLC-T=	1000BASE-T	GE	100m	Copper	COM	NA
CWDM-SFP-xxxx= (8 freq)	CWDM 1000BASE-X	GE		SMF	COM	Yes

Part number	Specification	SFP type	Max distance	Cable type	Temp range*	DOM support
DWDM-SFP-xxxx= (40 freq)	DWDM 1000BASE-X	GE		SMF	COM	Yes
SFP-10G-BXD-I=	10GBASE-BX10	10GE	10km	SMF	IND	Yes
SFP-10G-BXU-I=	10GBASE-BX10	10GE	10km	SMF	IND	Yes
SFP-10G-LR-X=	10GBASE-LR	10GE	10km	SMF	EXT	Yes
SFP-10G-SR=	10GBASE-SR	10GE	400m	MMF	COM	Yes
SFP-10G-LR=	10GBASE-LR	10GE	10km	SMF	COM	Yes
SFP-H10GB-CUxM=	10G Passive Twinax	10GE	1m/3m/5m	Twinax	COM	NA
SFP-H10GB-ACUxM=	10G Active Twinax	10GE	7m/10m	Twinax	COM	NA
SFP-10G-T-X*	10GBASE-T	10GE	Up to 30 meters	Cat6A/Cat7	EXT	NA

* Requires 17.6.1 or greater

Note: ESS-9300-8X16T-W-A uses fixed optics on the Curtiss Wright VPX3-623 carrier card

Regulatory compliance standards

Compliance	ESS-9300-10X-E	ESS-9300-8X16T-W-A
Emissions	CISPR32: 2015/AMD1: 2019, EN 55032:2013 FCC Part 15B, ICES-003	N.A.
Immunity	CISPR35, EN55035 EN55035:2017, CISPR35:2016 EN61000-4-2 ESD EN61000-4-3 Radiated Immunity EN61000-4-4 Electrical Fast Transients/ Bursts EN61000-4-5 Surge EN61000-4-6 Conducted immunity EN61000-4-8 Power Frequency Magnetic field immunity EN61000-4-10 Damped Oscillatory Magnetic field immunity EN61000-4-11 Voltage Dips and Interruptions EN61000-4-16 Conducted Low Frequency Immunity EN61000-4-18 Damped Oscillatory Wave Immunity	N.A.
MIL standard	MIL-STD-461G	N.A.

Compliance	ESS-9300-10X-E	ESS-9300-8X16T-W-A
Safety	CB to IEC62368-1 ed2 UL Recognition	CB to IEC62368-1 UL Recognition
Hazardous Material	RoHS (EU, China, Taiwan)	RoHS (EU, China, Taiwan)

Note: Regulatory tests were conducted using the test platform. The integrator is responsible for obtaining any necessary regulatory approvals at system level.

Ordering information

ESS-9300-10X-E

The ESS-9300-10X-E is available in the following configurations:

Product ID	Product description
ESS-9300-10X-E	ESS9300 board, no cooling plate, Network Essentials software
ESS9300-NW-A=	Cisco Network Advantage license for ESS9300 Series Spare

ESS-9300-8X16T-W-A

- ESS-9300-8X16T-W-A is designed to act as a Mezzanine switch card in VPX3-623 module for VPX system developed by Curtiss-Wright. This is available from Curtiss Wright Defense Solutions for use with Curtiss Wright VPX3-623 system, jointly developed by Cisco.
- Please contact your Cisco Account Executive for the US DoD for further details and to order this product.
- Please also note that this product is not available to order through Curtiss Wright until its target FCS in Q2CY25 which is subject to change without further notice. Please look at the VPX3-623 datasheet <https://www.curtisswrightds.com/resources/vpx3-623-cisco-powered-switch-data-sheet>.

Warranty information

The ESS9300 has a 1-year Limited Hardware Warranty.

Further warranty information for the ESS9300 switch is available at <https://www.cisco.com/c/en/us/products/warranty-listing.html>.

Product sustainability

Information about Cisco's Environmental, Social and Governance (ESG) initiatives and performance is provided in Cisco's CSR and sustainability [reporting](#).

Sustainability Topic		Reference
General	Information on product-material-content laws and regulations	Materials
	Information on electronic waste laws and regulations, including our products, batteries and packaging	WEEE Compliance
	Sustainability Inquiries	Contact: csr_inquiries@cisco.com
	Information on product takeback and reuse program	Cisco Takeback and Reuse Program
	Operating/non-operating environmental conditions	Environmental specifications
Power	Power consumption	Product overview Hardware specifications
	Power supply	Hardware specifications
Material	Product packaging weight and materials	Contact: environment@cisco.com
	Dimensions	Product overview Hardware specifications
	Weight	Hardware specifications

Cisco and partner services

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- Lowering TCO by taking advantage of Cisco expertise and knowledge.
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- Supplementing your existing support staff so they can focus on additional productive activities.

For more information about Cisco Services, refer to Cisco Technical Support Services or Cisco Advanced Services at <https://www.cisco.com/web/services/>.

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For more information

For more information about the Cisco Catalyst ESS9300 Embedded Series Switch, visit <https://www.cisco.com/go/ess9300> or contact your local account representative.

Document history

New or Revised Topic	Described In	Date
MACsec-256 security feature	Network Advantage License	April 12, 2023
Added ESS9300-NW-A= Network Advantage Spare License	Ordering Information	April 12, 2023
Added Certificate based MACsec In Software Features	Network Essential License	January 10, 2024
Added a Footnote in Compliance Section	Compliance Section	January 12, 2024
Added ESS-9300-10X16T-W-A datasheet as a follow on in the ESS9300 series to ESS-9300-10X-E datasheet and added some additional common content	New section for ESS-9300-10X16T-W-A	September 30, 2024
Reformatted Datasheet to be more readable and where applicable have single tables describing various for both ESS-9300-10X-E and ESS-9300-8X16T-W-A	Entire datasheet	October 9, 2024

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