

Cisco Catalyst (IEM-3300-8S=)

Cisco Catalyst - Expansion module - SFP (mini-GBIC) x 8 - for Catalyst IE3300 Rugged Series



The Cisco Catalyst IE3300 Rugged series switches deliver advanced, high-speed Gigabit Ethernet connectivity in a compact form factor, and are designed for a wide range of industrial applications where hardened products are required. The modular design of the Cisco Catalyst IE3300 Rugged series offers the flexibility to expand up to 26 ports of Gigabit Ethernet with a range of expansion module options. The platform is built to withstand harsh environments in manufacturing, energy, transportation, mining, smart cities, and oil and gas. The IE3400 platform is also ideal for extended enterprise deployments in outdoor spaces, warehouses, and distribution centers. The IE3300 series runs Cisco IOS XE, a next-generation operating system featuring secure boot, image signing, and the Cisco Trust anchor module. Cisco IOS XE also provides API-driven configuration with open APIs and data models. The Cisco Catalyst IE3300 Rugged Series can be managed by Cisco DNA Center and Industrial Network Director, and can be easily set up with a completely redesigned, user-friendly, modern GUI tool called WebUI. The platform also supports Full Flexible NetFlow (FNF) for real-time visibility into traffic patterns and threat analysis with Cisco Stealthwatch.

Key Selling Points

- Built for harsh environments and temperature ranges (-40°C to +75°C)
- Fanless, convection-cooled with no moving parts for extended durability
- Hardened for vibration, shock and surge, and electrical noise immunity
- Complies with multi-industry specifications for automation, ITS, and substation environments
- Improves uptime, performance, and safety of industrial systems and equipment
- Covers a wide range of Power over Ethernet (PoE) application requirements
- Alarm I/O for monitoring and signaling to external equipment
- Provides secure access for new high-speed applications in the industrial space
- Expandable to 26 ports of GE by attaching one of 10 compatible modules
- Connects high-speed wireless access points (802.11n, 802.11ac)
- Enables High-Definition (HD) IP cameras and Programmable Logic Controllers (PLC)
- Supports delay-sensitive applications and time-sensitive networks
- Delivers multiple rings and redundant ring topology for new network configurations
- Extends geographical scalability where longer-distance connectivity is required
- 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
- Allows for easy configuration and monitoring
- Eliminates the need for more complex terminal emulation programs
- Reduces the cost of deployment
- True zero-configuration and simple switch replacement in case of a failure
- No networking expertise required
- Helps ensure fast recovery
- Provides enhanced flow and threat visibility
- Enables optimization of the network infrastructure, reduces operation costs, and improves capacity planning and security incident detection

Product Features

- Robust performance**
Engineered to withstand extreme environmental conditions, this Cisco Catalyst expansion module operates efficiently between -40°C and 70°C, ensuring reliable performance in a wide range of operating scenarios.
- Comprehensive connectivity**
With eight SFP (mini-GBIC) ports, this module offers ample connectivity options for Gigabit Ethernet, facilitating high-speed data transmission and efficient network expansion.
- Exceptional durability**
Boasting an impressive MTBF (Mean Time Between Failures) of 6,810,960 hours, this module represents a reliable solution for critical network infrastructure, minimizing downtime and maintenance requirements.
- Advanced networking features**
Supports a suite of features including Quality of Service (QoS), VLAN Trunking Protocol (VTP) versions 2 and 3, and Rapid Reconfiguration of Spanning Tree (RSTP), enhancing network efficiency, security, and flexibility.
- Comprehensive standards compliance**
Meets a wide array of compliance standards, including IEEE 802.1Q, IEEE 802.3ad (LACP), and more, ensuring interoperability and a high level of security across diverse network environments.

Main specifications

Product Description	Cisco Catalyst - expansion module - SFP (mini-GBIC) x 8
Device Type	Expansion module
Form Factor	DIN rail mountable
Ports	SFP (mini-GBIC) x 8
Dimensions (WxDxH)	6.1 cm x 13.5 cm x 15.2 cm

Weight	934 g
Cabling Type	Ethernet 1000Base-T
Data Link Protocol	1GbE
Compliant Standards	IEEE 1588v2, IEEE 802.1ab (LLDP), IEEE 802.1D, IEEE 802.1p, IEEE 802.1Q, IEEE 802.1s, IEEE 802.1w, IEEE 802.1x, IEEE 802.3, IEEE 802.3ab, IEEE 802.3ad (LACP), IEEE 802.3ah, IEEE 802.3u, IEEE 802.3x, IEEE 802.3z
Manufacturer Warranty	5-year warranty
Designed For	Catalyst IE3300 Rugged Series

Extended specification

General

Device Type	Expansion module
Form Factor	DIN rail mountable

Expansion / Connectivity

Interfaces	8 - SFP (mini-GBIC)
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Manufacturer Warranty

Service & Support	Limited warranty - 5 years
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Networking

Ports	SFP (mini-GBIC) x 8
Connectivity Technology	Wired
Cabling Type	Ethernet 1000Base-T
Data Link Protocol	Gigabit Ethernet
Features	PVST+, MSTP support, Rapid Reconfiguration of Spanning Tree (RSTP), Cisco Gigabit EtherChannel, VTP v.3, IGMP filtering, IGMP querier, LLDP support, MAC address filtering, NTP, UDLD, VTP v.2, MIB, DHCP server, DHCP snooping, DAI, RSPAN, SCP, SmartPort technology, SNMP support, SSH support, Syslog support, RADIUS support, BPDU, QoS
Compliant Standards	IEEE 1588v2, IEEE 802.1ab (LLDP), IEEE 802.1D, IEEE 802.1p, IEEE 802.1Q, IEEE 802.1s, IEEE 802.1w, IEEE 802.1x, IEEE 802.3, IEEE 802.3ab, IEEE 802.3ad (LACP), IEEE 802.3ah, IEEE 802.3u, IEEE 802.3x, IEEE 802.3z

Miscellaneous

MTBF	6,810,960 hours
Compliant Standards	AS/NZS CISPR 32 Class A, CISPR 11 class A, CISPR 32 Class A, CISPR 35, CNS 13438 Class A, EN 300 386, EN 55032, EN 61000-4-10, EN 61000-4-16, EN 61000-4-17, EN 61000-4-18, EN 61000-4-2, EN 61000-4-29, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN55024, FCC CFR47 Part 15, ICES-003 Class A, KN32 Class A, KN35, VCCI Class A, EN 50121-4, EN 60079-0, EN 61000-6-1, EN 61000-6-2, EN 61000-6-4, EN 61326-1, IEC 60079-0, IEC 60950-1, IEC/EN 61010-2-201, IEEE 1613, IP30, UL 121201, UL 62368-1, UL/CSA 60079-0, UL/CSA 61010-2-201, UL/CSA60950-1, EN 60068-2-52, EN 60068-2-60, IEC 60068-2-27, IEC 60068-2-30, IEC 60068-2-78, MIL-STD-810

Power

Power Consumption Operational	13 watt
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Environmental Parameters

Min Operating Temperature	-40 °C
Max Operating Temperature	70 °C

Dimensions & Weight

Width	6.1 cm
Depth	13.5 cm

Height	15.2 cm
Weight	934 g

Compatibility Information

Designed For	Cisco Catalyst IE3300 Rugged Series
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