

Refurbished CISCO IEM-3300-8P Datasheet

CISCO > SWITCHES

Cisco Catalyst IE3300 Rugged Series

IE3300 features and benefits

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

IEM3300 modules power consumption

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

Key supported software features (Network Essentials License)

Network Essentials License (Perpetual)

Network Essentials License (Perpetual)	Features
Layer 2 switching	IEEE 802.1, 802.3 standard, NTP, UDLD, CDP, LLDP, unicast MAC filter, PAgP, LACP VTPv2, VTPv3, EtherChannel, Q-in-Q tunneling, voice VLAN, PVST+, MSTP, and RSTP
Multicast	IGMPv1, v2, v3 snooping, IGMP filtering, IGMP querier
Management	WebUI, MIB, SmartPort, SNMP, syslog, DHCP server, SPAN session, RSPAN, FSPAN, Express setup, NETCONF, RESTCONF
Security	Port security, 802.1x, Dynamic Host Configuration Protocol (DHCP) snooping, dynamic ARP inspection, IP source guard, guest VLAN, MAC authentication bypass, 802.1x multidomain authentication, storm control - unicast, multicast, broadcast, SCP, SSH, SNMPv3, TACACS+, RADIUS server/client, MAC address notification, BPDU guard, Access Lists (PACL, VACL, RACL), SUDI 2099 (Secure Unique Device identifier), Full Flexible NetFlow (FNF), MACsec-128
Quality of Service (QoS)	Ingress policing, rate limit, egress queuing and shaping, auto QoS
IPv6	IPv6 host support, SNMP over IPv6, HTTP/HTTP(s) over IPv6, 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
Industrial Ethernet	CIP Ethernet/IP, IEEE 1588 PTP v2 (default and power), PROFINET
Redundancy	Resilient Ethernet Protocol (REP) ring, PROFINET-Media Redundancy Protocol (MRP), REP Preferred, Fast REP
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)

Key supported software features (Network Advantage License)

Network Advantage License (Perpetual)

Network Advantage License (Perpetual)	Features
IP routing Protocols	OSPF (v4 and v6), BGP (v4 and v6), RIP (V1 and V2), ISIS (v4 and v6), EIGRP (v4 and v6), Policy based routing(PBR), VRRP(v4 and v6), HSRP(v4 and v6)
Virtualization	Vrf-lite
Security	MACsec-256
IP Multicast	PIM sparse mode (PIM-SM), PIM dense mode (PIM-DM), PIM sparse dense mode, MSDP, Multicast routing BSR (IPv4/IPv6), Auto RP(IPv4), Embedded RP(IPv6)

Compliance Specifications

Descriptions

Descriptions	Specifications
Industrial Automation Control System	IEC 62443-4-1 IEC 62443-4-2
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 13438 Class A KN 32 Class A EN 300 386
Electromagnetic immunity	CISPR 24

	<p>EN 55024 KN 35 EN 61000-4-2 Electro Static Discharge (air – 15kV, contact – 8kV) EN 61000-4-3 Radiated RF (10V/m UTP, 20V/m STP) EN 61000-4-4 Electromagnetic Fast Transients (4kV) EN 61000-4-5 Surge (2KV/1KV Power, 4KV STP) EN 61000-4-6 Conducted RF (10Vrms UTP) EN 61000-4-8 Power Frequency Magnetic Field (1000A/m) EN 61000-4-10 Pulsed Magnetic Field (30 A/m) EN 61000-4-16 Conducted CM Disturbances (30V, Cont/ 300V, 1 sec) EN 61000-4-17 Ripple Immunity DC Power (10%) EN 61000-4-18 Damped Oscillatory Wave (2.5kV, 1MHz) EN-61000-4-29 DC Voltage Dips and Interruptions</p>
Industry standards	<p>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 EN/IEC 61850-3 Electric Substations Communications Networking EN50121-4 Railway – Signaling and Telecommunications Apparatus ODVA Industrial EtherNet/IP NEMA TS 2-2016 IP30</p>
Safety standards and certifications	<p>Information Technology Equipment: UL/CSA 60950-1, CB to IEC 60950-1 with all country deviations UL/CSA 62368-1, CB to IEC 62368-1 with all country deviations Industrial floor (control equipment): UL/CSA 61010-2-201 CB report and certificate to IEC/EN 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, -15 (Class I, Zone 2, Gc/IIC) IEC 60079-0, -15 IECEx test report (Class I, Zone 2, Gc/IIC) EN 60079-0, -15 ATEX certificate (Class I, Zone 2, Gc/IIC) Cabinet enclosure required</p>
Operating environment	<p>Operating temperature: -40°C to +70°C (40 LFM vented enclosure) -40°C to +60°C (sealed enclosure) -34°C to +75°C (Min. 200 LFM fan or blower-equipped enclosure) +85°C (type tested for 16 hours) Altitude: up to 15,000 feet</p>
Storage environment	<p>Temperature: -40°C to +85°C degrees Altitude: 15,000 feet IEC 60068-2-14</p>
Humidity	<p>Relative humidity of 5% to 95% non-condensing IEC 60068-2-78 IEC 60068-2-30</p>
Shock and vibration	<p>IEC 60068-2-27 (operational shock, 50G, 3ms, half sine) IEC 60068-2-27 (non-operational shock, 65-80G, 9ms, trapezoidal) MIL-STD-810, Method 514.4</p>
Corrosion	<p>IEC 60068-2-52 (salt fog) IEC 60068-2-60 (flowing mixed gas)</p>
Warranty	<p>Five-year limited hardware warranty on all IE3300 product IDs and all Industrial Ethernet (IE) power supplies. See more information under the Warranty section</p>

MTBF Information

Product ID detail

Product ID detail	Rated MTBF (hours)
IE-3300-8T2S-E	633,420
IE-3300-8T2S-A	633,420
IE-3300-8P2S-E	611,350
IE-3300-8P2S-A	611,350
IEM-3300-8T=	3,041,040
IEM-3300-8P=	2,931,233

IEM-3300-8S=	6,810,960
IEM-3300-16T=	1,594,210
IEM-3300-16P=	1,043,520
IEM-3300-6T2S=	3,729,130
IEM-3300-14T2S=	1,865,300

The next steps...

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