

IET8100M/IET8200M Series

Hardened / Industrial Managed 8-port 10/100Base-TX or 10/100/1000Base-TX Ethernet Switch



Features

- ▶ Provide 8- ports 10/100Base-TX (IET8100M Series) or 8-ports 10/100/1000Base-T (IET8200M Series)
- ▶ 9K Jumbo frames
- ▶ L2 wire-speed switching
- ▶ 8K MAC forwarding addresses
- ▶ Network redundant Port Trunking, Spanning tree STP, RSTP & MSTP, and quick protection (<20ms)
- ▶ Port-based / tag-based VLAN, IEEE 802.1ad / QinQ VLAN, Protocol-based VLAN
- ▶ Multicasting support IGMP v1/v2/v3, proxy & snooping
- ▶ Multicast / Broadcast / Flooding Storm Control
- ▶ IEEE802.1x access control
- ▶ Per VLAN mirroring
- ▶ Dual power input (12~58VDC) & Reverse power protection
- ▶ Alarm Relay dry contact
- ▶ Hi-POT 1.5KV
- ▶ DIN-Rail and Wall mounting options



Warranty

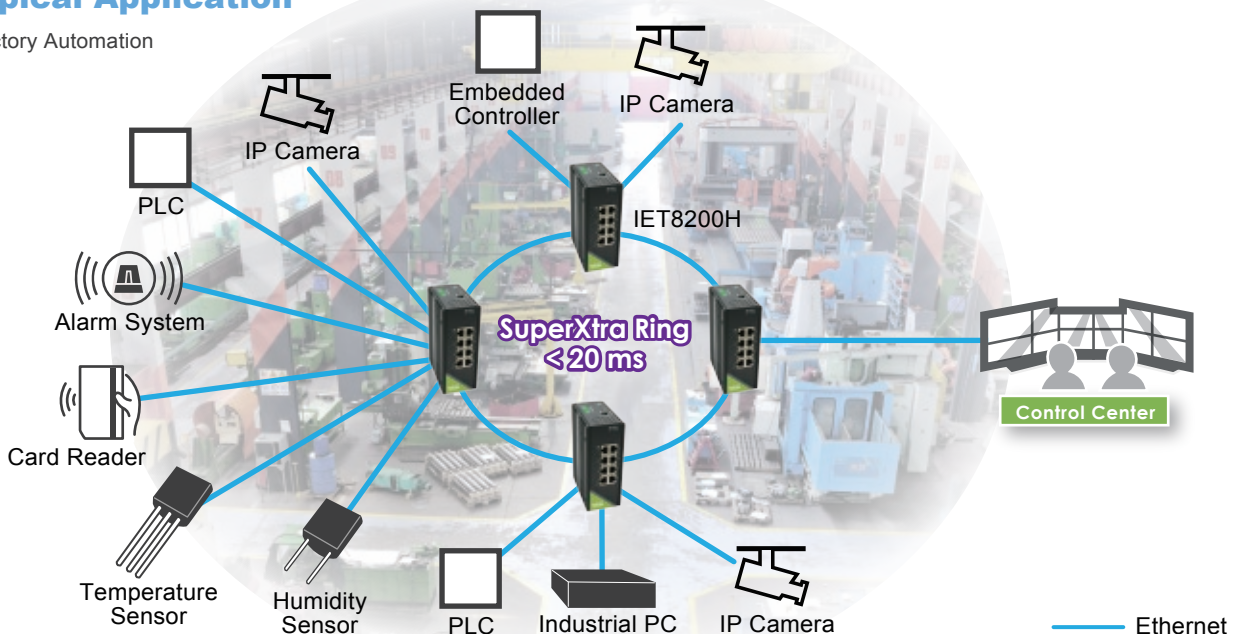
- ▶ 5-Year Warranty

Overview

The IET8100/8200 Series are fully managed switches offering eight 10/100Mbps copper twisted-pair ports and eight 10/100/1000Mbps copper twisted-pair ports respectively. Both Series support wide range dual DC power inputs (12 – 58VDC) for flexible selection of power supply or system and no service interruption in case of power supply failure. With OTS SuperXtra ring, the network recovery time can be reduced to less than 20ms (in 250 nodes), thereby significantly increase the systems reliability and availability for non-stopped applications. Rich of management interfaces (web, CLI, telnet and SNMP) allow for easy system configuration and monitoring. L2 features include Port/Tag-based VLAN, IGMP snooping, Port-based security and QoS. Housed in an IP30 rugged DIN-rail case (no fan) and higher standard of vibration, shock and free fall specification enable the switches to place in almost any locations and well-suited in the industrial environments. IET8100MH/IET8200MH switches operate from -40°C to +75°C allow them to work in climatically demanding environments. They are ideal for organisations requiring reliable, secure and affordable transmission network working in harsh and mission-critical environments.

Typical Application

Factory Automation



Specifications

Ethernet

Standards	IEEE802.3 10Base-T IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T
Processing Type	Store-and-Forward
Switch Fabric	IET8100M Series: 1.6Gbps, IET8200M Series: 16Gbps
Forward Filter Rate	14,880pps (10Mbps) 148,800pps (100Mbps) 1,488,000pps (1000Mbps)
Max Packet Length	9K Bytes
Address Table Size	8K MAC Addresses
Connector	8 x RJ45

Interface

RJ45 Ports	IET8100M Series: 8 x 10/100Mbps, Auto-MDI/MDI-X, Auto-negotiation, Full/Half-Duplex IET8200M Series: 8 x 10/100/1000Mbps, Auto-MDI/MDI-X, Auto-negotiation, Full/Half-Duplex
------------	---

Electrical and Mechanical

Input Power	12~58VDC, Redundant Power Input (6-pin Terminal Block)
Power Consumption	8.1W
LED Indicators	
Power	Power Status
Ethernet (Per Port)	Link/Activity, Speed
Dimensions (W x D x H)	60 x 109 x 154 mm
Weight	1.5 Kg
Casing	IP30 Metal Case
Mounting Options	DIN-Rail / Wall Mount

Software Features

Network Redundancy

Fast failover protection rings	Link loss recovery <20ms Single & Multiple rings supported
Spanning Tree Protocol	IEEE 802.1D STP, IEEE 802.1w RSTP, IEEE 802.1s MSTP
Port Trunk with LACP	Static trunk or Dynamic via LACP (Link Aggregation Control Protocol)

Bridge, Virtual Local Area Networks (VLANs) & Protocols

Flow control	IEEE 802.3x (Full Duplex) and Back-Pressure(Half Duplex)
Max VLANs	256
VLAN Types	Port-based VLANs, IEEE 802.1Q tag-based VLANs, IEEE 802.1ad Double Tagging (Q in Q) Private VLAN
Multicast protocols	IGMP v1, v2, v3 IGMP snooping and querying Immediate leave and leave proxy Throttling and filtering

Traffic Management & QoS

Priority	IEEE 802.1p QoS
Number of queues per port	8
Scheduling schemes	SPQ, WRR, SPQ+WRR
Traffic Shaper	Port-base shaping

Security

Port security	IP and MAC-based Access control; Policy-based Access control IEEE 802.1X authentication Network Access Control
Storm Control	Multicast / Broadcast / Flooding Storm Control

Management

User Management interfaces	Cisco-like CLI (command line interface) WEB-based Management SNMP v1, v2c, v3 Telnet
Management Security	HTTPs, SSH
Upgrade & Restore	Web for Configuration Import / Export, Web for Firmware Upgrade

Specifications

Diagnostic	Syslog Per VLAN mirroring Ethernet Copper connection diagnostic tool
MIBs	RFC 1757 RMON 1,2,3,9; RFC 2674 Q-Bridge MIB RFC-1213 MIB-II; RFC-1493 Bridge MIB; RFC 2233 IF MIB
DHCP	Client, Server, Relay, Snooping
NTP/SNTP	Yes
System status	Device info / status; Ethernet port status

Environmental

Operating Temperature:	
Hardened	-40°C to 75°C (-40°F to 167°F)
Industrial	-10°C to 60°C (14°F to 140°F)
Storage Temperature:	-40°C to 85°C (-40°F to 185°F)
Relative Humidity:	5% to 95% non-condensing
MTBF:	> 300,000 hrs

Compliance and Regulatory Approvals

ISO9001	Yes
Certificate Compliance	CE/FCC, EN50121-4 (pending)
EMC	FCC Part 15, CISPR 22 (EN55022) Class A, IEC61000-4-2, -3, -4, -5, -6 (level 3)
Vibration, shock & freefall	IEC60068-2-6, -27, -32 (pending)
Electrical Safety	CE (pending)
RoHS and WEEE	RoHS (Pb Free) and WEEE compliant

Ordering Information

Available Model	Description
IET8100M-DR	Industrial Managed 8-port 10/100Base-TX Ethernet Switch
IET8100MH-DR	Hardened Managed 8-port 10/100Base-TX Ethernet Switch
IET8200M-DR	Industrial Managed 8-port 10/100/1000Base-TX Ethernet Switch
IET8200MH-DR	Hardened Managed 8-port 10/100/1000Base-TX Ethernet Switch

Optional Accessories (to be purchased separately)

Power Supply Please refer to the power supply information at the back of the catalogue, our website www.ot-systems.com, or consult OTS sales at sales@ot-systems.com for your power system design properly.

Package Checklist

■ Managed Ethernet Switch	x 1
■ Wall Mount Plates	x 2
■ DIN Rail Clip	x 1
■ M3 Screws (for the Wall Mount Plates & DIN Clip)	x 4
■ DC Power Terminal Block	x 1
■ RJ45 Ethernet Port Dust Covers	Some
■ Quick Installation Guide	x 1

