# IET8122M/IET8222M Series

Hardened / Industrial Managed 8-port 10/100Base-TX or 10/100/1000Base-TX + 2-port 100/1000Base-FX SFP Ethernet Switch

















#### **Features**

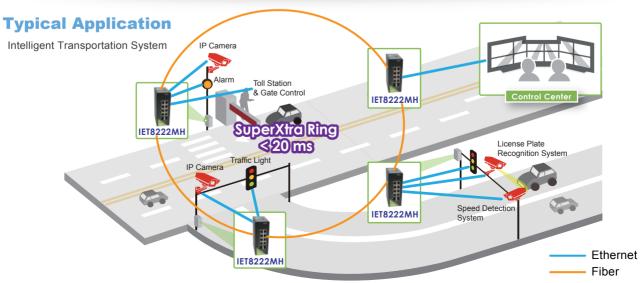
- Provide 8-ports 10/100Base-TX (IET8122M Series) or 8-ports 10/100/1000Base-T (IET8222M Series) plus 2-port 100Base-FX/1000Base-X SFP (SX/LX/LHX/ZX/EZX)
- 9K Jumbo frames
- L2 wire-speed switching
- 8K MAC forwarding addresses
- Network redundant Port Trunking, Spanning tree STP, RSTP & MSTP, and quick 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 IET8122M/IET8222M Series are designed for high speed data communication for local and remote far end connections. The IET8122M series are fully managed switches offering eight 10/100Mbps copper twisted-pair ports plus two 10/100/1000Mbps or 100/1000Mbps SFP combo ports. The IET8222M Series offering eight 10/100/1000Mbps copper twisted-pair ports plus two 10/100/1000Mbps or 100/1000Mbps SFP combo ports. They all support single/multi-mode, 1/2 fiber connections for distance up to 20Km. Both Series support wide range dual DC power inputs (12 - 58VDC) for flexible power supply or system selection. In case of power supply failure, there is no service interruption. 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, link aggregation, Port-based security and QoS. Housed in an IP30 rugged DIN-rail case (no fan) enable the switches to be placed in any locations and well-suited in the harsh and industrial environments. IET8122MH /IET8222MH switches operate from -40°C to +75°C allow them to work in climatically demanding environments. They are ideal for reliable, secure and affordable transmission network working in severe and mission-critical environments for applications of surveillance systems, factory automation, intelligent transportation systems and industrial Ethernet.





# **Specifications**

IEEE802.3 10Base-T
IEEE802.3u 100Base-TX
IEEE802.3u 100Base-FX
IEEE802.3ab 1000Base-T
IEEE802.3z 1000Base-X
Store-and-Forward
IET8122M Series: 5.6 Gbps, IET8222M Series: 20 Gbps
14,880pps (10Mbps)
148,800pps (100Mbps)
1,488,000pps (1000Mbps)
9K Bytes
8K MAC Addresses
8 x RJ45
JETO COMO CONTROL A CAMPUNIO VA CAMPUNIO CONTROL E MALCONIO
IET8122M Series: 8 x 10/100Mbps, Auto-MDI/MDI-X, Auto-negotiation, Full/Half-Duplex
IET8222M Series: 8 x 10/100/1000Mbps, Auto-MDI/MDI-X, Auto-negotiation, Full/Half-Duple
2 x 100Base-FX or 1000Base-X SFP slot (SX/LX/LHX/ZX/EZX), LC
12~58VDC, Redundant Power Input
(6-pin Terminal Block)
12.5W
Power Status
Link/Activity, Speed
60 x 109 x 154 mm
1.5 Kg
IP30 Metal Case
DIN-Rail / Wall Mount
Link loss recovery <20ms
Single & Multiple rings supported
IEEE 802.1D STP, IEEE 802.1w RSTP, IEEE 802.1s MSTP
Static trunk or Dynamic via LACP (Link Aggregation Control Protocol)
LANs) & Protocols
IEEE 802.3x (Full Duplex) and Back-Pressure(Half Duplex)
256
Port-based VLANs, IEEE 802.1Q tag-based VLANs, IEEE 802.1ad Double Tagging
(Q in Q) Private VLAN
IGMP v1, v2, v3
IGMP snooping and querying
Immediate leave and leave proxy
Throttling and filtering
IEEE 802.1ab Link layer Discovery Protocol (LLDP)
IEEE 802.1p QoS
8
SPQ. WRR. SPQ+WRR
SPQ, WRR, SPQ+WRR Port-base shaping
SPQ, WRR, SPQ+WRR Port-base shaping
Port-base shaping
Port-base shaping  IP and MAC-based Access control; Policy-based Access control
Port-base shaping  IP and MAC-based Access control; Policy-based Access control  IEEE 802.1X authentication Network Access Control
Port-base shaping  IP and MAC-based Access control; Policy-based Access control
Port-base shaping  IP and MAC-based Access control; Policy-based Access control  IEEE 802.1X authentication Network Access Control  Multicast / Broadcast / Flooding Storm Control
Port-base shaping  IP and MAC-based Access control; Policy-based Access control  IEEE 802.1X authentication Network Access Control  Multicast / Broadcast / Flooding Storm Control  Cisco-like CLI (command line interface)
Port-base shaping  IP and MAC-based Access control; Policy-based Access control  IEEE 802.1X authentication Network Access Control  Multicast / Broadcast / Flooding Storm Control

ISO9001

EMC

Certificate Compliance

RoHS and WEEE



### **Specifications**

Management Security	HTTPs, SSH
Upgrade & Restore	Web for Configuration Import / Export,
	Web for Firmware Upgrade
Diagnostic	Syslog
	Per VLAN mirroring
	Ethernet Copper connection diagnostic tool
	SFP with DDM (Digital Diagnostic Monitoring)
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

Yes

CE (pending)

# Vibration, shock & freefail Electrical Safety

# **Ordering Information**

Available Model	Description
IET8122M-S-DR	Industrial Managed 8-port 10/100Base-TX + 2-port 100/1000Base-FX SFP Ethernet Switch
IET8122MH-S-DR	Hardened Managed 8-port 10/100Base-TX + 2-port 100/1000Base-FX SFP Ethernet Switch
IET8222M-S-DR	Industrial Managed 8-port 10/100/1000Base-TX + 2-port 100/1000Base-FX SFP Ethernet Switch
IET8222MH-S-DR	Hardened Managed 8-port 10/100/1000Base-TX + 2-port 100/1000Base-FX SFP Ethernet Switch

FCC Part 15, CISPR 22 (EN55022) Class A, IEC61000-4-2, -3, -4, -5, -6 (level 3)

CE/FCC, EN50121-4 (pending)

IEC60068-2-6, -27, -32 (pending)

RoHS (Pb Free) and WEEE compliant

#### Optional Accessories (to be purchased separately)

SFP	(S) = SFP Option. Please select your SFP on our SFP Modules page at the back of the catalogue
	or our website www.ot-systems.com for details.
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
■ SFP Port Dust Covers	x 2
■ Quick Installation Guide	x 1

