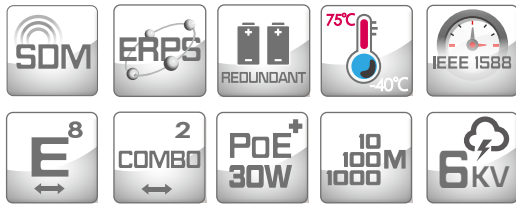


IET8222MPpH-S-DR

Hardened Managed 8-port 10/100/1000Base-T (PoE+) + 2-port 10/100/1000Base-T or 100/1000Base-X SFP Combo Ethernet Switch



Features

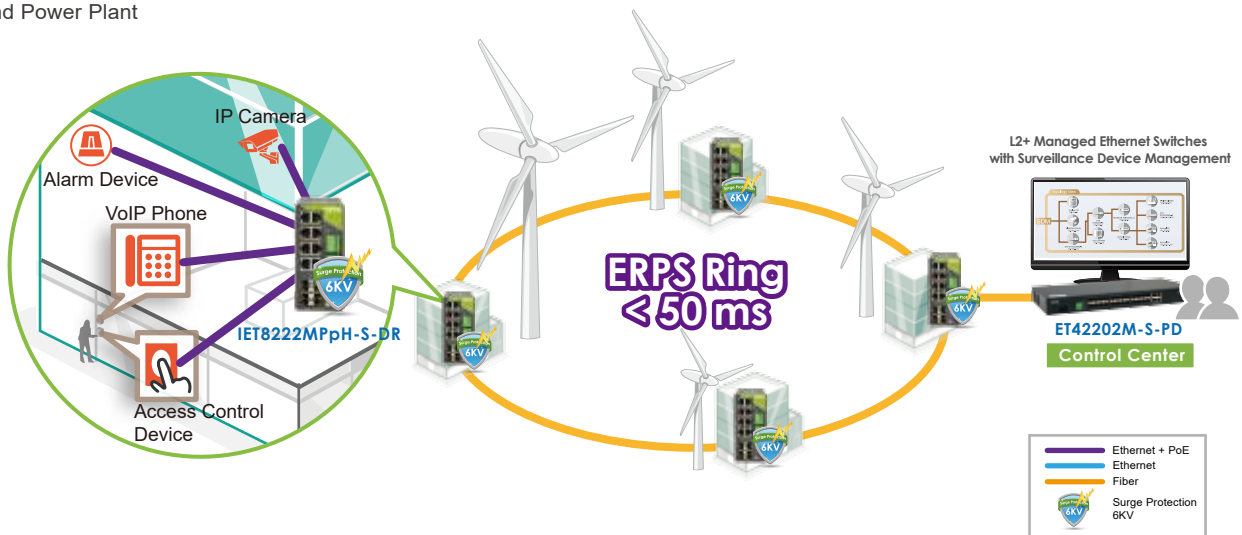
- ▶ 8 10/100/1000Base-T(PoE+) + 2 10/100/1000Base-T or 100/1000Base-X SFP
- ▶ Support IEEE802.3at PoE+(30W per port)
- ▶ RJ45 Port Supports 10/100/1000Mbps-Full/Half-duplex, Auto-negotiation, Auto MDI/MDIX
- ▶ SFP Slot Supports 100/1000Mbps
- ▶ Supports IGMP v1/v2/v3, up to 1024 groups
- ▶ Supports IEEE1588v2 PTP
- ▶ Supports IEEE802.1Q VLAN, SNMP v1/v2c/v3
- ▶ Web GUI, Serial Console, CLI Command configuration
- ▶ Network Redundancy support: G.8032 ERPS, RSTP, MSTP
- ▶ 6KV surge protected
- ▶ Redundant DC Power Inputs
- ▶ -40°C to 75°C (-40°F to 167°F) operating temperature
- ▶ Embedded Surveillance Device Management

Warranty

- ▶ 5-Year Warranty

Typical Application

Wind Power Plant



Specifications

Ethernet

| Standards | IEEE 802.3 10Base-T |
|-----------|--|
| | IEEE 802.3u 100Base-TX |
| | IEEE 802.3ab 1000Base-T |
| | IEEE 802.3u 100Base-FX |
| | IEEE 802.3z 1000Base-X |
| | IEEE 802.3af/at Power over Ethernet |
| | IEEE 802.1d STP (Spanning Tree Protocol) |
| | IEEE 802.1w RSTP (Rapid Spanning Tree Protocol) |
| | IEEE 802.1s MSTP (Multiple Spanning Tree Protocol) |
| | ITU-T G.8032 / Y.1344 ERPS (Ethernet Ring Protection Switch) |
| | IEEE 802.1Q Virtual Local Area Network (VLAN) |
| | IEEE 802.1ad Stacked VLAN, Q-in-Q |
| | IEEE 802.1p QoS/CoS Protocol for Traffic Prioritization |
| | IEEE 802.1X Network Authentication |
| | IEEE 802.3x flow control, back pressure flow control |

IEEE 802.3ah OAM, Operations, Administration, Management
 IEEE 802.3ad LACP, Link Aggregation Control Protocol
 IEEE 802.1ab LLDP Link Layer Discovery Protocol
 IEEE 1588v2 PTP Precision Time Protocol
 IEEE 802.1ag Ethernet CFM Connectivity Fault Management

Specifications

| | |
|----------------------|--|
| Protocol | CSMA/CD, IGMP v1/v2/v3, SNMP v1/v2c/v3, TFTP, SNTP, SMTP, RARP, RMON, Syslog |
| Processing Type | Store-and-Forward |
| Forward Filter Rate | 14,880pps (10Mbps) 148,800pps (100Mbps) 1,488,000pps (1000Mbps) |
| Packet Buffer Memory | 4 Mbit |
| Max Packet Length | 9.6 Kbytes |
| Address Table Size | 8K MAC Addresses |

Interface

| | |
|------------|---|
| RJ45 Ports | 10 x 10/100/1000 Mbps, Auto-MDI/MDI-X, Auto-negotiating, Full/Half-Duplex |
| SFP Port | 2 x 100/1000Base SFP slots, LC |

Electrical and Mechanical

| | |
|---------------------|---|
| Input Power | Redundant Input Terminals (4-pin Terminal Block) |
| Input voltage range | 48~57VDC, >48VDC for PoE IEEE802.3af, >54VDC for PoE+ IEEE802.3at |
| Power Consumption | Max. 10W without PD loading Max. 250W with PD loading |

| | |
|----------------|---|
| PoE | |
| Standard | IEEE802.3af, IEEE802.3at |
| Port | RJ45 Port 1 ~ Port 10 Fiber Port11, Port12 |
| Surge Capacity | 6KV/port |

| | |
|-------------------------------|--------------------------|
| Per Port Power | 30W (Alternative A Mode) |
| Total PoE output power budget | 240W |

| | |
|--------------------------------------|----------------------------|
| Digital Input | |
| Input Channel | DI x 1 |
| Input Voltage | 0 to 24VDC |
| Digital Input Levels for Dry Contact | NO,NC |
| Connector type | 2-pin screw terminal block |

| | |
|----------------|----------------------------|
| Digital Output | |
| Ouput Channel | DO x 1 |
| Ouput Current | Max. 1A |
| Output Voltage | Max. 24 VDC |
| Connector type | 2-pin screw terminal block |

| | |
|----------------------------|--------------------------------------|
| LED Indicators | |
| Sys | Green on for switch ready |
| Alarm | off for normal, on for system alarm. |
| Power | Power 1, Power 2 |
| RM, CPL(Reserved for Ring) | RM, CPL |
| Ethernet (Per Port) | Link/Active |
| SFP (Per Port) | Link/Active |
| PoE | Supplying Power to PD |
| Dimensions (W x D x H) | 62 x 130 x 135 mm |
| Weight | 1 Kg |
| Casing | IP30 Metal Case |
| Mounting Options | DIN-Rail / Wall Mount |

Software Features

Network Redundancy

STP/RSTP/MSTP, Port Trunk with LACP, ERPS (<50ms), Rapid Ring (<20ms)

Configuration

Web-base, Telnet, Console, Cisco-like CLI, TFTP, SSH, SSL, SNMP v1/v2c/v3, RMON, USB

Software Features

Qos-Cos, ToS/Diffserv mapping, SPQ/WRR queuing

802.1Q VLAN and 802.1ad Q-in-Q provider bridge

IGMP/MLD Snooping, IGMP/MLD query

DHCP Client/Server/Relay with Option 82

Static Internet Protocol Version 6 (IPv6) and Internet Protocol Version 4 routing

Port Status, Statistics, Monitoring, Security, and Rate Limiting, SFP DDM

PoE Status, Monitoring, Ping Alarm, Scheduling

Port Mirror, uPnP, Modbus/TCP

Security Features

MAC based port security, static MAC address

Access Control List(ACL), 802.1X authentication, RADIUS

SNMP v3 encrypted authentication and access

Environmental

| | |
|-----------------------|--------------------------------|
| Operating Temperature | -40°C to 75°C (-40°F to 167°F) |
| Storage Temperature | -40°C to 85°C (-40°F to 185°F) |
| Relative Humidity | 5% to 95% non-condensing |
| MTBF | > 200,000 hrs |

Regulatory Approvals

| | |
|-------------------------------|---------------|
| ISO9001, CE, FCC, RoHS | Free Fall |
| EMI | IEC60068-2-32 |
| FCC Part 15 Subpart B Class A | Shock |
| EMS | IEC60068-2-27 |
| IEC 61000-4-2: 2008 (ESD) | Vibration |
| IEC 61000-4-3: 2010 (RS) | IEC60068-2-6 |
| IEC 61000-4-4: 2012 (EFT) | |
| IEC 61000-4-5: 2014 (Surge) | |
| IEC 61000-4-6: 2013 (CS) | |
| IEC 61000-4-8: 2009 (PFMF) | |

Ordering Information

| Available Model | Description |
|------------------|---|
| IET8222MPpH-S-DR | Hardened Managed 8-port 10/100/1000Base-T (PoE+) + 2-port 10/100/1000Base-T or 100/1000Base-X SFP Combo Ethernet Switch |

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 PoE Switch | x 1 |
| ■ DIN rail brackets and screws | x 1 |
| ■ RJ45 to DB9 Serial Console cable | x 1 |



OT Systems Ltd., Aug 2016

Due to continuous improvement, all product specifications are subject to change without further notice.