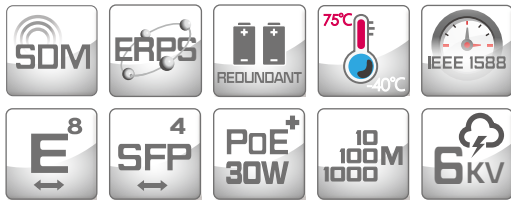


# IET8242MPpH-S-DR

Hardened Managed 8-port 10/100/1000Base-T (PoE+) + 4-port 100/1000Base-X SFP Ethernet Switch



## Features

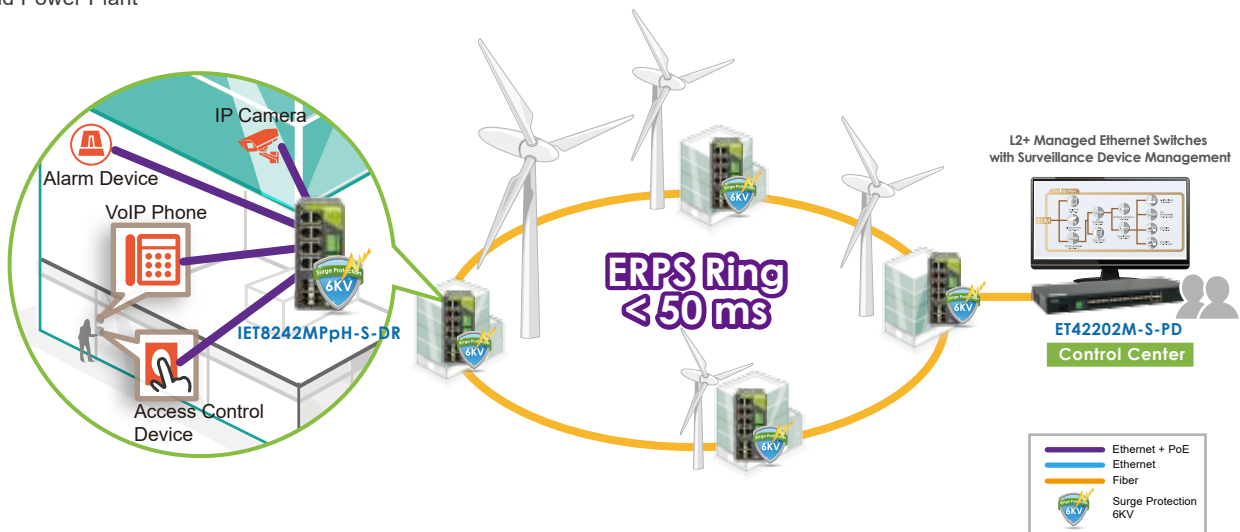
- ▶ 8 10/100/1000Base-T(PoE+) + 4 100/1000Base-X SFP
- ▶ Support IEEE802.3at PoE+(30W per port)
- ▶ RJ45 Port Supports 10/100/1000Mbps-Full/Half-duplex, Auto-negotiation, Auto MDI/MDIX
- ▶ SFP Slot Supports 100/1000Mbps
- ▶ Supports IGMP v1/v2/v3, up to 1024 groups
- ▶ Supports IEEE1588v2 PTP
- ▶ Supports 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	8 x 10/100/1000 Mbps, Auto-MDI/MDI-X, Auto-negotiating, Full/Half-Duplex
SFP Port	4 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	IEEE802.3at
Port	RJ45 Port 1 ~ Port 8 Fiber Port 9 ~ Port 12
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	
Output Channel	DO x 1
Output 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
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**IET8242MPpH-S-DR** Hardened Managed 8-port 10/100/1000Base-T (PoE+) + 4-port 100/1000Base-X SFP 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](http://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](http://www.ot-systems.com), or consult OTS sales at [sales@ot-systems.com](mailto: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.