

# ET8122MPH Series

Managed Hardened 8-port 10/100Base-TX + 2-port 10/100/1000Base-T / FX SFP Combo Ethernet Switch with PoE/PSE



## Features

### General

- ▶ Support IEEE802.3af PoE(15.4W per port)
- ▶ 5.6Gbps Back-Plane (Switching Fabric)
- ▶ Ethernet Ring Redundancy (Recovery Time < 20ms)
- ▶ IEEE 802.1w Rapid Spanning Tree & IEEE 802.1D Spanning Tree Protocol
- ▶ Supports Port Based VLAN & IEEE 802.1Q Tag VLAN
- ▶ IGMP with Query Mode for Multi-Media Applications
- ▶ IP30 Rugged Aluminum Case Design
- ▶ DIN-Rail and Panel Mountable for Easy Installation
- ▶ Redundant Power Design
- ▶ Environmentally hardened -40°C to 80°C (-40°F to 176°F) operating temperature

### Warranty

- ▶ 3-Year Warranty

## Ordering Information

Model	Description
ET8122MPH-S-DR	Managed Hardened DIN-Rail 8-Port 10/100Base-TX + 2-Port 10/100/1000Base-T/FX SFP Combo with PoE/PSE
SFP Options	■ (S) = SFP option. Please select your SFP option on our SFP Options page.
Mounting Options	■ Default DIN-Rail Bracket installed, Wall Mount Bracket is included.
Power Options	<ul style="list-style-type: none"> <li>■ DR120A48 120W/2.5A 48VDC DIN-Rail Power Supply. Open Wire for Terminal Block.</li> <li>■ DR240A48 240W/5A 48VDC DIN-Rail Power Supply. Open Wire for Terminal Block.</li> <li>■ GS120A48 120W/2.5A 48VDC Power Supply. Open Wire for Terminal Block.</li> <li>■ GS220A48 220W/4.6A 48VDC Power Supply. Open Wire for Terminal Block.</li> <li>■ Power Supply is to be purchased separately.</li> </ul>

## Specifications

### Ethernet

Standards:	<ul style="list-style-type: none"> <li>IEEE802.3 10Base-T</li> <li>IEEE802.3u 100Base-TX/FX</li> <li>IEEE802.3ab 1000Base-T</li> <li>IEEE802.3z Gigabit Fiber</li> <li>IEEE 802.3x Flow Control</li> <li>IEEE802.3ad Port Trunking with LACP</li> <li>IEEE802.3af Power over Ethernet</li> <li>IEEE802.1D Spanning Tree</li> <li>IEEE802.1w Rapid Spanning Tree</li> <li>IEEE802.1p Class of Service</li> <li>IEEE802.1Q VLAN Tag</li> <li>IEEE802.1x User Authentication (RADIUS)</li> </ul>	Processing Type:	Store-and-Forward
		Switching Architecture:	Half-duplex back-pressure & Full-duplex 802.3x flow control
		Back-Plane:	5.6Gbps Switching Fabric
		Packet Throughput	
		Abaility:	8.3Mpps @ 64bytes Full-Duplex
		Forward and Filter Rate:	14,880pps (10Mbps)
			148,800pps (100Mbps)
			1,488,000pps (1000Mbps)
		Flash ROM:	4 Mbytes
		DRAM:	32 Mbytes
Packet Buffer Memory:	1 Mbits		

## Specifications - Continue

### Ethernet - Continue

Cabling:	
10Base-T:	2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm (100m)
100Base-TX:	2-pair UTP/STP Cat. 5 cable EIA/TIA-568 100-ohm (100m)
Interface:	10/100TX: 8xRJ-45 with Auto MDI/MDI-X Function Gigabit Fiber: 2xMini-GBIC Socket RS-232 Connector: RJ-45 type

### Electrical and Mechanical

Input Power:	48VDC Redundant Power, Connective Removable Terminal Block for Master & Slave Power
Power Supply:	Input Power Isolation Design, Pass Hi-Pot Test ~ 1.5V
Power Consumption:	10.7 W Max. 223mA@48VDC (Power Device Not Included)
PoE:	
Power Budget:	123.2 Watts Max.
Standard:	IEEE802.3af
Mode:	Alternative A Mode Positive (VCC+): RJ-45 Pin 1, 2 Negative (VCC-): RJ-45 Pin 3, 6
Port:	RJ-45 Port 1 ~ Port 8
Max. Power per Port:	15.4W
Reverse Polarity:	Present
Alarm:	Present Provides 1 Relay Output for Port
LED Indicators:	Breakdown and Power Fail
Power:	
Ethernet(Per Port):	Power Status(PWR1, PWR2, Fault) Link/Activity, Full-Duplex/Collision,
SFP:	Power Feeding
Dimensions (WxDxH):	Link/Activity
Weight:	72x152x105mm
Shipping Weight:	0.91 Kg
Casing:	1.36 Kg
Mounting Options:	IP30 Metal Case DIN-Rail / Wall Mountable

### Regulatory Approvals

EMI	FCC Class A, CEEN6100-4-2, EN6100-4-3, EN6100-4-4, EN6100-4-5, EN4100-4-6, EN6100-4-8, EN6100-4-11
Safety	CEEN60950-1
Stability Testing	Shock: IEC60068-2-27 Free Fall: IEC60068-2-32 Vibration: IEC60068-2-6

### Software Features

SNMP:	
Version:	v1, v2C, v3
MIB:	RFC2030 SNMP, RFC2821 SMTP, RFC1215 Trap, RFC2233 MIB II, RFC1157 SNMP MIB, RFC1493 Bridge MIB, RFC2674 VLAN MIB, RFC2665 Ethernet Like MIB, RFC2819 RMON MIB, Private MIB
Trap:	Up to 3 Trap Stations
Port Trunk with LACP:	LACP Port Trunk: 4 Trunk Groups / Max. 4 Trunk Members
Redundant Ring:	Supports Redundant Ring, Dual Homing and Couple Ring Redundant Backup Feature and Recovery Time < 20 ms
Class of Service(IEEE802.1p):	Provides 4 priority queues per port
Quality of Service:	Port, Tag, IPv4 Type of Service, IPv4 / IPv6 Different Service
IGMP:	IGMP v1, v2 & Query Mode. Up to 256 Groups
Spanning Tree:	IEEE802.1D Spanning Tree IEEE802.1w Rapid Spanning Tree
SNTP:	Supports Simple Network Time Protocol
SMTP:	Supports Simple Mail Transfer Protocol (6 eMail Accounts for Alerts)
IP Security:	Supports up to 10 IP Addresses for Secured Access
System Event Log:	Supports System Log Record and Remote System Log Server
Port Mirror:	TX, RX, or Both Packets
Port Security:	100 MAC Address Entries for Static MAC and 100 MAC Filters
Login Security:	IEEE802.1x Authentication/RADIUS
DHCP:	DHCP Client, DHCP Server, IP Relay Functions
DNS:	DNS Client Feature and Primary & Secondary DNS Server
Bandwidth Control:	Supports Ingress and Egress packet limit
Firmware Update:	Supports TFTP Firmware Update, Config. Backup & Restore

### Environmental

Operating Temperature:	-40°C to 80°C (-40°F to 176°F)
Storage Temperature:	-40°C to 85°C (-40°F to 185°F)
Relative Humidity:	5% to 95% non-condensing



OT Systems Ltd., May 2014

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