ER59400 Series

IP-67 Grade M12 Managed Hardened 16-port 10/100BASE-TX (8 x PoE) + 2-port Gigabit Ethernet Switch (Compliant with EN50155/50121-3-2 environmental requirements)











Extended Temperatur

Value

- Provide 16-port 10/100BASE-M12 plus 2-port Gigabit-TX waterproof connector/LC Fiber waterproof connector
- Port 1 to 8 supports PoE function 802.3at 30W max.
- Compliant with EN50155/50121-3-2 environmental requirements



M12 connectors are designe for "rolling stock" railway transportation applications



Gore-Tex Vent provides pressure and humidity equalization, preventing water permeating

Features

- Supports PoE Power Sourcing Equipment (PSE)
- PoE control and scheduling
- Supports α-ring and STP/RSTP for Ethernet redundancy
- Supports Port-base VLAN, IEEE802.1Q VLAN Tagging and GVRP
- Supports STP/RSTP and EtherWAN α-ring for Ethernet redundancy
- IP multicast filtering through IGMP Snooping V1, V2 and V3
- IEEE802.1p QoS with four priority queues
- MAC-based trunking and LACP
- Supports IEEE802.1x port-security

- Bandwidth rate control
- Port-lock for authorized MAC address access only
- Port mirroring
- NTP synchronization
- Support SSH/SSL
- Front panel port status LEDs
- Support Wall Mount installation
- Management through console, Telnet, SNMP V1, V2c & V3, RMON, Web Browser and TFTP
- -40°C to 75°C operating temperature range

Ordering Information

ER59402-YZP

16-port M12 10/100BASE-M12 + 2-port 10/100/1000BASE Managed Hardened Ethernet Switch

Gigabit Options:

(Y) = 1: 10/100/1000BASE-TX

3 : 1000BASE-LX (LC) - 550m A : 1000BASE-LX (LC) - 10Km

B: 1000BASE-LX (LC) - 20Km

*More Gigabit options also available upon request.

Power Input Options:

(Z) = T : 12 to 48VDC, 18 to 30VAC (for non-PoE model)

G: 55VDC (47 to 57 VDC) (for PoE model)

PoE type:

(P) = 0 : non-PoE

T: PoE 802.3at

M23 Power Connector: (Option)

SF-5ES1N8A80WW

Installation Type:

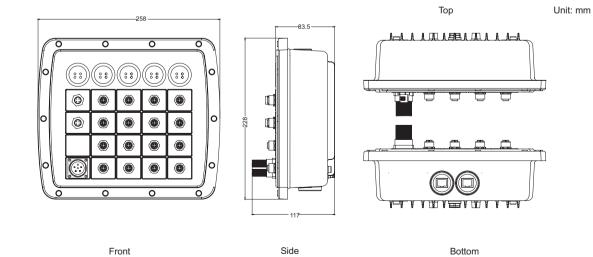
Panel Mount (mounting kit is included)

Specifications

Technology	
Standards	IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX/FX,
	IEEE802.3x, IEEE802.3ab 1000BASE-T,
	IEEE802.3z 1000, IEEE802.1p CoS,
	IEEE802.1D STP, IEEE802.1w RSTP
Forward and	14,880pps for 10Mbps
Filtering Rate	148,810pps for 100Mbps
	1,488,100pps for 1000Mbps
Processing	Store-and-Forward
Туре	Half-duplex back-pressure and IEEE802.3x full-duplex
	flow control
Address Table	8K MAC addresses
Size	
Power	
Power Input	Redundant power inputs:
	M23: 12 - 48VDC, 18 - 30VAC (for non-PoE model)
	M23: 47 - 57VDC (for PoE model)
Power	Device: Max. 11W (without PoE)
Consumption	PoE power budget (depends on power input):
	240W Max.
PoE Power	Port 1 to 8
Output	IEEE802.3at: up to 15.4W/port, 47 - 57VDC
	IEEE802.3at: up to 30W/port, 50 - 57VDC
	load current protection
	rse polarity protection
Mechanical	
Casing	Metal case
	IP67
Dimensions	258mm(W) x 117mm(D) x 228mm(H)
	(10.15" (W) x 4.6"(D) x 8.97"(H))
Weight	3Kg(6.6lbs.)
Installation	Wall mount
Interface	10/100PASE M12 D Code 4 Din Females 16 ports
Ethernet Port	10/100BASE-M12 D-Code 4-Pin Female: 16 ports
	Gigabit-TX/LC: 2 ports

Console Port	Port: One M12 RS-232 port
LED Indicators	Per Unit: Power Status: Power 1 (Green),
	Power 2 (Green)
	Per Port: 10/100BASE: Link/Activity (Green)
	Gigabit: Link/Activity (Green)
Alarm Contact	One relay M12 A-Code 4-Pin Female output with
	corrent
	1A @ 250VAC
Environment	·
Operating	-40°C to 75°C (-40°F to 158°F)
Temperature	
Storage	-40°C to 85°C (-40°F to 168°F)
Temperature	F((t- OF() (
Ambient	5% to 95% (non-condensing)
Relative	
Humidity	
Regulatory Approvals	
ISO Safety	Manufactured in an ISO9001 facility UL508 (Pending)
EMI	FCC Part 15, Class A
L/WI	CE, VCCI Class A
	EN61000-6-4
	- EN55022
	- EN61000-3-2
	- EN61000-3-3
EMS	EN61000-6-2
	- EN61000-4-2 (ESD)
	- EN61000-4-3 (RS)
	- EN61000-4-4 (EFT)
	- EN61000-4-5 (Surge)
	- EN61000-4-6 (CS)
	- EN61000-4-8
	- EN61000-4-11
	* EN50155 related certificates (for Rolling Stock
	Railway applications, according to EN50155
	and EN50121-3-2)

Dimensions



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Industrial Ethernet Switches

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