

PE1M020263



6-Port Industrial Gigabit PoE+ Managed Ethernet Switch

4*10/100/1000Base-TX with 4*PoE-PSE(30W/Port) + 2*100/1000 SFP Slot

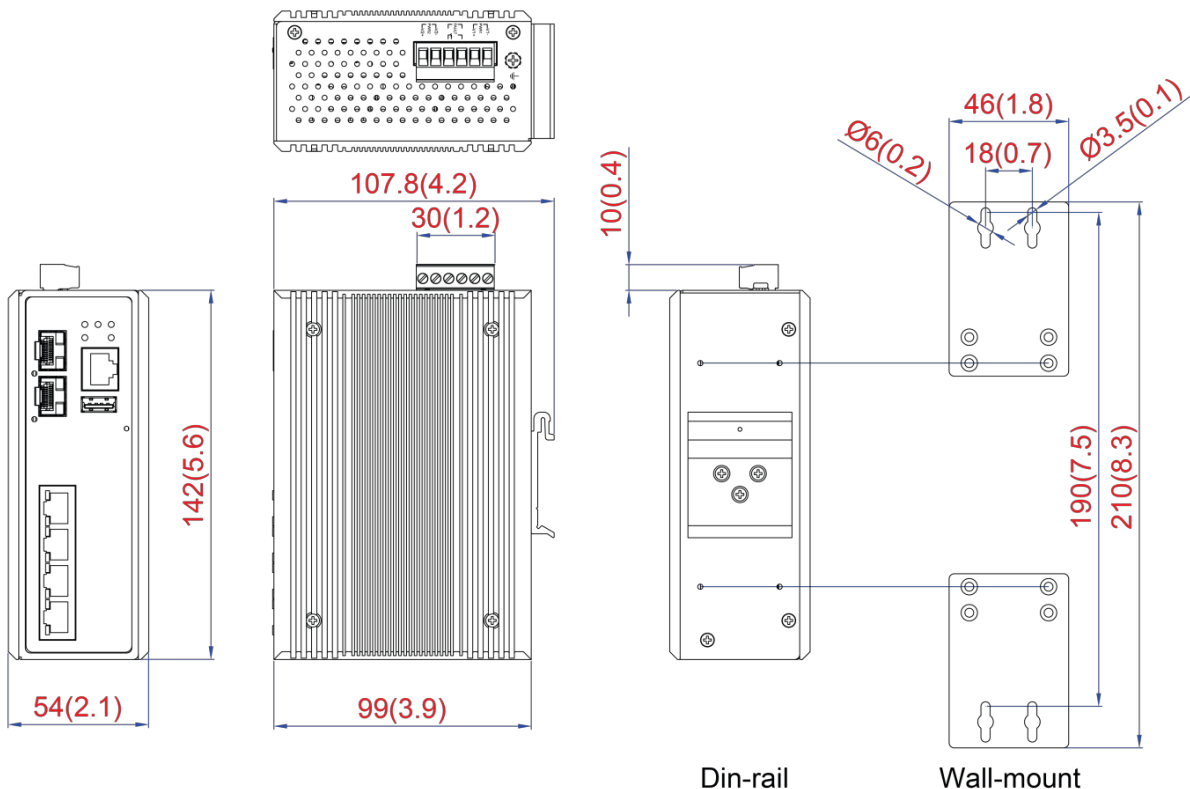
Feature



- 4-port 10/100/1000Base-T(X) Ethernet with IEEE 802.3af/at compliant PoE, 30W/port
- 2-port 100/1000 SFP slots
- Multiusers account for security
- Configuration: http, https, CLI Command, Telnet, SNMP, SSH
- Network redundancy support: G.8032 ERPS v2/ STP/ RSTP/ MSTP
- Supports Static routes for routing function
- Supports RADIUS, TACACS+ authentication protocol
- Supports QoS, LACP bandwidth control
- Supports VLAN, SNMP v1/v2c/v3, ACL, IP source guard for Ethernet security
- PoE ping alarm function for PoE ports power recycle
- Redundant power inputs design
- Operating temperature range - STD: -10°C ~ 65°C



Dimensions (unit = mm)



Specifications

Technology

Standards	<p>IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000Base-T IEEE 802.3ab 1000Base-T Gigabit Ethernet IEEE 802.3af/at Power over Ethernet IEEE 802.3x Flow Control 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 v1/v2(Ethernet Ring Protection Switch) IEEE 802.1Q Virtual Local Area Network (VLAN) IEEE 802.1p QoS/CoS Protocol for Traffic Prioritization IEEE 802.1X Network Authentication IEEE 802.1AB Link Layer Discovery Protocol (LLDP) IEEE 802.3ad Link Aggregation (LACP)</p>
------------------	--

Processing Type	Store and Forward
------------------------	-------------------

Flow Control	IEEE 802.3x flow control, back pressure flow control
---------------------	--

Network Management

Management	<p>IPv4/IPv6, SNMP v1/v2c/v3, LLDP, LLDP-MED, HTTP, HTTPS, SSHv2 telnet, DHCP client, DHCPv6 client, DHCP server, Port Mirror, DNS client/proxy, IP based Access Filter, ICMPv6, syslog, Time Zone /Daylight Saving, NTP client, RMON, sFlow, Loop detection, Console Port, Power lost warning, relay trigger</p>
-------------------	---

Security	<p>Port-based/Single/Multi 802.1X, ACL(Port/Rate Limiters/ACE), MAC-based Authentication, VLAN assignment, QoS Assignment, Private VLAN, Guest VLAN, RADIUS accounting, TACACS+, IP MAC binding, WEB/CLI authentication, Authorization (15 levels), Port Security Limit Control, ACLs for filtering/policing/port copy, IP source guard, ARP Inspection</p>
-----------------	---

L2 Switching	<p>Port/MAC/Protocol/IP Subnet-based VLAN, GARP/GVRP, Loop Guard, Link Aggregation static/LACP, BPDU guard, Error disable recovery, IGMP snooping v2/v3, MLD snooping v1/v2, IGMP filtering, IPMC throttling / filtering leave proxy, DHCP snooping, G.8032 v1/v2</p>
---------------------	---

L3 Switching	DHCP option82, IP routes
---------------------	--------------------------

Power Saving	ActiPHY, PerfectReach, IEEE 802.3az EEE power management
---------------------	--

Network Redundancy	STP/RSTP/MSTP, port trunk with LACP, ERPS v1/v2(<50ms)
---------------------------	--

Configuration	Http, Https, Telnet, SSH, CLI, TFTP, SNMP v3
----------------------	--

PoE	<p>POE/POE+ port power allocation, Power budget protection, PoE output scheduled, PoE alive check and remote reboot PD device</p>
------------	---

System / Diagnostics	Dual Image Protection, PING, PING6
-----------------------------	------------------------------------

SNMP MIBs & RFC Standards	<p>RFC 2674 VLAN MIB IEEE-802.1Q bridge MIB 2008 RFC 2819 RMON (group 1, 2, 3, and 9) RFC 1213 MIB II RFC 1215 TRAPS RFC 4188 bridge RFC 4292 IP forwarding table RFC 4293 management information base for the Internet Protocol (IP) RFC 5519 multicast group membership discovery RFC 4668 RADIUS auth. client RFC 4670 RADIUS accounting RFC 3635 Ethernet-like RFC 2863 interface group MIB using SMI v2 RFC 3636 802.3 MAU</p>
--------------------------------------	--

RFC 4133 entity MIB v3
 RFC 3411 SNMP management frameworks
 RFC 3414 user-based security model for SNMPv3
 RFC 3415 view-based access control model for SNMP
 RFC 2613 SMON – PortCopy
 IEEE 802.1 MSTP
 IEEE 802.1AB LLDP-MIB (LLDP MIB included in a clause of the STD)
 IEEE 802.3ad (LACP MIB included in a clause of the STD)
 IEEE 802.1X (PAE MIB included in a clause of the STD)
 TIA 1057 LLDP-MED (MIB is part of the STD)
 RFC 3621 LLDP-MED Power (POE) (No specific MIB for POE+ exists)

Switch Properties

Switching Fabric (Back-Plane)	16Gbps
Priority Queues	8
Max. Number of VLANs	4095
VLAN ID Range	VID 1 to 4095
Memory Buffer	4Mbits
Jumbo Frame	9.6Kbytes
MAC Table Size	8k
IGMP Group	1024
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port 1,488,000pps for Gigabit Ethernet port

Interface

RJ45 Ports	4*10/100/1000 Base-T(X) with 4*PoE-PSE(30W/Port) Auto-Negotiation, Full/Half Duplex, Auto-MDI/MDI-X
PoE Pin Out	V+, V+, V-, V-, for pin 1, 2, 3, 6 (End-span, Mode A)
Fiber Port	2*100/1000 SFP slots
Wavelength	Depends on SFP modules
LED Indicators	System: Power 1, Power 2, Master, Ring, Fault Ethernet ports: Speed/Link/Active PoE: On-connected to PD devices SFP: Link/Active
Relay Contact	24 VDC, 1A resistive
Network Cable	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) 1000Base-T: 4-pair UTP/STP Cat.5/5E cable; EIA/TIA-568 100-ohm (100m)
RJ45 Ports	Multi-mode cable - 50/125um or 62.5/125um, Single-mode cable - 9/125um or 10/125um

Power Requirements

Input Voltage	dual 48-55VDC redundant power inputs
Power Connection	1 removable 6-contact terminal block
Overload Current Protection	Present (Slow-Blow Fuse)
Reverse Polarity Protection	Present
System Power Consumption	Max. 7.5W full loading
Max. PoE Power Budget	120W
PoE Power Output	30W max. per PoE port

Mechanical Characteristics

Housing	Metal, IP30 protection
Dimensions (W x H x D)	54 x 142 x 99 mm (2.13 x 5.59 x 3.9 inch)
Weight	0.95kg (2.09 lb), Shipping weight:1.25 kg (2.75 lb)
Mounting	DIN-Rail Mounting, Wall Mounting

Environmental Limits

Operating Temperature	STD: -10°C ~ 65°C (14°C ~ 149°F)
Storage Temperature	-40°C ~ 85°C (-40°C ~ 185°F)
Ambient Relative Humidity	5 to 95%, (non-condensing)

Regulatory Approvals

EMI	FCC Part 15 Subpart B Class A, CE EN55022/EN61000-6-4 Class A
EMS	CE EN55024/EN61000-6-2 Class A: IEC61000-4-2 (ESD), IEC61000-4-3 (RS), IEC61000-4-4 (EFT), IEC61000-4-5 (Surge), IEC61000-4-6 (CS), IEC61000-4-8 (Magnetic Field)
Free Fall	IEC60068-2-32
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Green	RoHS Compliant
Warranty	5 Years

Ordering Information

PE1M020263	6-Port Industrial Gigabit PoE+ Managed Ethernet Switch (4*10/100/1000Base-TX with 4*PoE-PSE(30W/Port) + 2*100/1000 SFP Slot)
-------------------	--