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Industrial 5 Port Gigabit Ultra PoE++ Switch

Unmanaged Industrial PoE++ Gigabit Ethernet Switch

RLH hardened industrial Ethernet switches are engineered to provide reliable network performance in harsh environments. The Industrial 5 Port Gigabit Ultra PoE++ Switch provides Gigabit data transfer and can supply four Powered Devices (PDs) with up to PoE++-rated power. Four (4) of its five (5) copper Ethernet ports can supply PoE++.

Four (4) PoE++-rated ports can output up to 90 Watts of power in compliance with Type 4 IEEE 802.3bt power distribution, while the switch upholds a maximum power consumption budget of 190W. It also includes DIP switches that disable the PoE++ ports' PoE functionality, decreasing the switch's overall power consumption. This switch maintains redundant power input terminals with a corresponding alarm relay that informs users of lost redundant power and/or PoE faults.

The Industrial 5 Port Gigabit Ultra PoE++ Switch's ability to supply PDs with PoE++ categorizes it as an ideal solution when deploying advanced surveillance systems, high-performance wireless networks, and industrial automation systems. Common power-hungry PDs integrated with this switch are monitored PTZ IP cameras, gate and building access controllers, wireless access points, and thin clients.



Industrial 5 Port Gigabit Ultra PoE++ Switch











Features

- 4 Ports of Gigabit PoE++ (90W/Port), 1 Non-PoE Gigabit Port
- IEEE 802.3af/at/bt-compliant (Type 3 and Type 4 IEEE 802.3bt)
- Supports Mode A, Mode B, and 4-Pair Mode PoE power relaying
- PoE ON/OFF DIP switches for simplified PoE port control
- Status LEDs for input power, alarm relay, and PoE Load
- Alarm relay for redundant power loss and PoE faults
- Overload current protection and reverse polarity protection

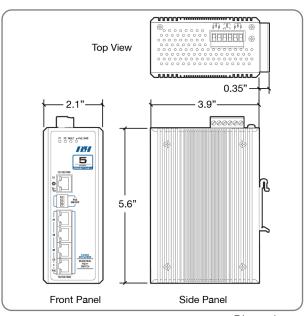
Environment

- Hardened to operate in -40°F to +75°F (-40°C to +167°C)
- DIN rail or Wall Mount (Wall mount ears included)

Power

• Redundant Power Inputs (48~55VDC)

- Highly reliable 1,542,873-hour MTBF
- UL Listed, CE, FCC, RoHS, REACH, NDAA Compliant



Dimensions



IEEE Compliance

Standards	IEEE 802.3	10Base-T (Ethernet)	IEEE 802.3u	100Base-TX (Fast Ethernet)
	IEEE 802.3ab	1000Base-T (Gigabit Ethernet)	IEEE 802.3x	Flow Control (Back Pressure)
	IEEE 802.3af	Power over Ethernet (PoE)	IEEE 802.3at	Power over Ethernet Plus (PoE+)
	IEEE 802.3bt	High Power Power over Ethernet (PoE++)		

Switch Characteristics

Switching Architecture	Layer 2, Unmanaged
Backplane Capacity	10Gbps
Jumbo Frame	10KB
Data Processing Type	Store and Forward
Memory Buffer	1Mb
MAC Table Size	8K

Interface Characteristics

Ethernet Ports	5x Copper	10/100/1000Base-T(X) - 4x PoE++ (IEEE 802.3af/at/bt-compliant), 1x Non-PoE
DIP Switches	4x Switch	PoE ON/OFF - PoE Port Power Output (Default Position: ON)
Alarm Relay Contact	1x Relay	Normally Closed (SPST) - 24VDC, 1A resistive (Redundant Power Loss, PoE Faults)
PoE Pinout	Mode A Mode B 4-Pair Mode *This Ethernet so	Pin 1 (V-), Pin 2 (V-), Pin 3 (V+), Pin 6 (V+) Pin 4 (V+), Pin 5 (V+), Pin 7 (V-), Pin 8 (V-) Pin 1 (V-), Pin 2 (V-), Pin 3 (V+), Pin 4 (V+), Pin 5 (V+), Pin 6 (V+), Pin 7 (V-), Pin 8 (V-) witch supports Mode A, Mode B, and 4-Pair Mode PoE relaying power schemes
LED Status Indicators	Input Power Alarm Relay PoE	Power Input 1 (P1), Power Input 2 (P2) Alarm Warning Status (FAULT) PoE Load Status (P/L)

Power Characteristics

Power Input	Dual 48-55VDC Redundant Power Inputs (6-Position Pluggable Terminal Block) *For PoE++ (IEEE 802.3bt) applications, apply a 53-55VDC input
Overload Current Protection	Present - Slow-Blow Fuse
Reverse Polarity Protection	Present - Polarity (+/-) Insensitive Terminal Contacts
Max. Power Consumption	190 Watts (assuming full PoE load)
Max. PoE Output	90 Watts (per PoE port)



Mechanical/Environmental Characteristics

Construction	Power coated IP30 steel housing
Case Dimensions	2.12" (W) x 3.90" (D) x 5.59" (H), (54mm x 99mm x 142mm)
Weight	1.85 lbs. / 0.84 kg (Unit Weight) 2.51 lbs. / 1.14 kg (Shipping Weight)
Installation	Standard T-35 DIN rail clip and wall mount ears (Included)
Temperature	Storage: -40°C to +85°C (-40°F to +185°F) Operating: -40°C to +75°C (-40°F to +167°F)
Ambient Relative Humidity	5% to 95% (non-condensing)

Regulatory Approvals

EMI/EMS	FCC Part 15 Subpart B Class A, CE EN55032, CE EN55035, CE EN61000-4-2/3/4/5/6		
Stability Testing	IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall)		
Safety	UL 61010-1 and UL 61010-2-201, File Number: E544369 CE, FCC, RoHS, REACH, NDAA Compliant		
MTBF	1,542,873 hours		
Warranty	Limited 5-Year - Visit www.fiberoptic.com for warranty information and coverage details		

Ordering Information

Description	Part Number
Unmanaged PoE++ Switch, 5 Gigabit Ports (4x 90W PoE++, 1x Non-PoE), Powering Voltage 48~55 DC	ETH-5GP-BT-1

Description	Part Number
Industrial AC/DC + DC/DC Switching Power Supply, 48 Volts, 3.2 Amps, 150 Watts	AD1150-48F

Contact

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