Mini Industrial 5-Port Gigabit PoE-Powered Switch/PoE Extender

Features

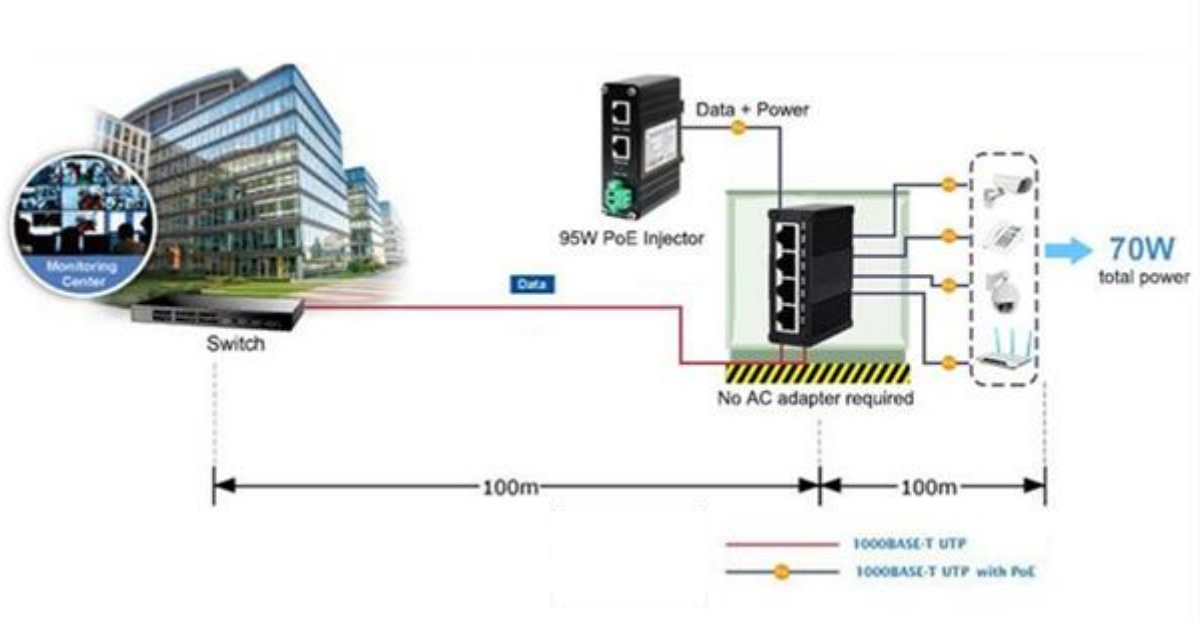
- 1 x Gigabit PoE++ PD input port up to 95 W power input from a PoE injector or switch
- 4 x Gigabit PoE+ output ports compliant IEEE 802.3af/at
- PoE power budget up to 70 watts when using DC power or IEEE 802.3bt via PD input port
- Three power input: PD Powered RJ45 input when using as PoE passthrough switch and PoE extender, 48VDC Power input as PoE Switch, 5VDC Type-C power input as Gigabit switch without PoE
- 16Gbps switching capacity
- Plug and Play
- Compact fanless design avoids overheating
- IP40 rugged high-strength aluminum case
- -40°C to 80°C (-40°F to 176°F) operating temperature

Overview

PoE-Powered 5-Port Gigabit Switch with PoE Passthrough is designed to take power from a PoE switch or injector and pass both data and electrical power to a number of PoE-compatible devices via standard Cat5e or Cat6 network cables. Equipped with five Gigabit Ethernet ports, this switch can power up to four wireless LAN access points and bridges, VoIP phones or IP video cameras, draw its own power from the PoE switch it is connected to, and deliver network speeds of up to 1,000 Mbps.

The unit support three power supply modes: Supports 5V DC via USB-C (PoE function cannot be enabled), 48V DC via round charging port (can be used as a PoE device), and PoE power supply through the uplink PD RJ45 port. The uplink port (marked with PD) supports 802.3bt Type 4, 802.3bt Type 3, 802.3at, and 802.3af PoE standard power supply; when using PoE++ power supply, the total power output can reach up to 70W. When powered by 5V DC via USB-C, the switch functions as a Gigabit switch without PoE; when powered by 48V DC via the round charging port, ports 1-4 support PoE+ with up to 30W per port, and a total power budget of 120W.

The unmanaged switch can function as a PoE extender, providing up to 30W of power per port. Thanks to its PoE passthrough technology that extends a PoE connection, this versatile unit doubles the range between PoE source and device from 100 m (328 ft.) to 200 m (656 ft.). Using it this way also eliminates the time and expense of electrical rewiring, which ultimately minimizes the unsightly clutter of power cables in awkward places such as ceilings and walls while providing up to 30 W to compatible devices.



Ethernet	
Standards:	IEEE 802.3 Ethernet
	IEEE 802.3u Fast Ethernet
	IEEE 802.3ab Gigabit Ethernet
	IEEE 802.3x Full-Duplex Flow Control
	IEEE 802.3az Energy Efficient Ethernet (EEE)
Forward & Filtering Rate:	14,880pps (10Mbps)
	148,800pps (100Mbps)
	1,488,000pps (1000Mbps)
Packet Buffer Size:	1M
Switch Fabric:	16Gbps
Processing Type:	Store-and-Forward
Forwarding rate:	11.9Mpps
Max Packet Length:	9K Bytes Jumbo Frame
Address Table Size:	4K MAC Addresses
Interface	
Copper Ports:	5 x 10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports
PD Port:	1 x Gigabit PoE++ in port
PoE Output Ports	4 x Gigabit PoE+ out port
Power over Ethernet	
PoE Standard	IEEE 802.3af Power over Ethernet IEEE 802.3at Power over Ethernet Plus IEEE 802.3bt Power over Ethernet Plus Plus
PoE Power Supply Type	Mid-span
Power Pin Assignment	4/5 (+), 7/8 (-)
PoE Power Output	IEEE 802.3af Standard - Per port 48V~51V DC (depending on the power supply), max. 15.4 watts

	IEEE 802.3at Standard - Per port 51V~54V DC (depending on the power supply), max. 30 watts
PoE Power Budget	71W maximum@95W PD Power Input 120W maximum@48-57VDC Power Input
Lightning protection	The Industrial Switch provides contact discharge of ±8KV DC and air discharge of ±15KV DC for Ethernet ESD protection. It also supports ±4KV surge immunity to improve product stability and protects users' networks from devastating ESD attacks, making sure the flow of operation does not fluctuate.
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
MTBF:	907,476 hours @ Telcordia SR-332 Standard
Heat Dissipation:	10 BTU/h (Non-PoE) 420 BTU/h (30W PoE)
Cooling:	Passive Cooling, Fanless Design
Noise Level:	0 dBA
Electrical and Mechanical	
Input Power:	PD Powered RJ45 input when using as PoE passthrough switch 48VDC Power input as PoE Switch 5VDC Type-C power input as Gigabit switch without PoE
Connector:	1 x DC Jack (48VDC), 1 x Type-C USB (5VDC)
Protection:	Overload Current Protection
Power Consumption:	125W Max. (PoE in use)
	5W Max. (PoE not in use)
LED Indicators:	
PWR:	Power Status
PD:	Powered Device Port Status
PoE:	PoE Status
L/A:	Link/Act: connect-always; data exchange-twinkle
Dimensions (LxWxH):	69 x 53 x 23 mm
Weight:	100g
Casing:	Aluminum Case
Mounting Options:	Desktop
Regulatory Approvals	
EMC/EMI/EMS	FCC Part15 Class A CE-EMC/LVD RoHS EN61000-4-2 (ESD): LEVEL 4 IEC 6100-4-2 (EFT): LEVEL 4 IEC 6100-4-2 (Surge): LEVEL 4 IEC 6100-4-2 (CS)：LEVEL 3 IEC 61000-4-2(PFMP) : LEVEL 5 EN61000-4-3 (RS): LEVEL 4

Shock	IEC60068-2-27
Freefall	IEC60068-2-31
Vibration	IEC60068-2-6
Safety	EN 60950-1, UL 60950-1, CSA C22.2 No.60950-1, UL 508

Order Information

Model	Description
20123922	Mini Industrial 5-Port Gigabit PoE-Powered Switch/PoE Extender: 1 x Gigabit PoE++ input port, 4 x Gigabit PoE+ output ports
Mounting Options	► Desktop
Power Options	► Powered by PoE, no need external power adapter
	► 48VDC Power Adapter (Optional) or 5V USB C when not using the POE