

Industrial-Grade PoE Switch

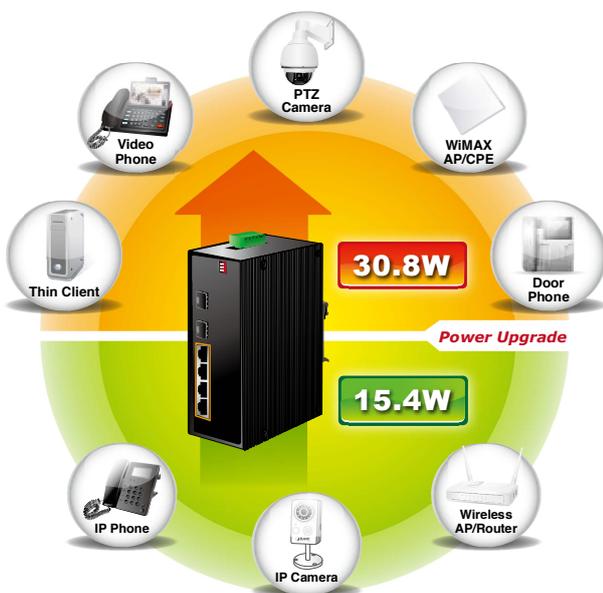


Long Distance High Power PoE and Gigabit Data Extension Solution

The ITOONER GNT624-I is an Industrial Gigabit 802.3af PoE+ Switch providing non-blocking wire-speed performance and great flexibility for Gigabit Ethernet extension in harsh industrial environment. It provides 4-port 10/100/1000Base-T copper with 802.3af/at PoE injector and 2 extra 100/1000Base-X SFP fiber optic interfaces delivered in an IP30 rugged strong case with redundant power system. The GNT624-I is well suited for applications in deploying surveillance system, and securing control and wireless service in climatically demanding environments with wide temperature range from -40 to 75 degrees C.

High Power PoE for Security and Public Service Applications

To fulfill the demand of High Power PoE for network applications, the GNT624-I provides 4 10/100/1000Mbps ports featuring both IEEE 802.3af and IEEE 802.3at Power over Ethernet Plus (PoE+) that combine up to 30-watt of power output and data per port over one Cat.5E / 6 Ethernet cable. With totally 120-watt PoE output capability on the whole system, the GNT624-I is designed specifically to satisfy the growing demand of higher power consuming network PD (powered devices) such as PTZ (Pan, Tilt & Zoom) / Speed Dome network cameras, multi-channel (802.11a / b / g / n) outdoor wireless LAN access points and other PoE network devices by providing double PoE power, rather than the current conventional 802.3af PoE.



Physical Port

- 4-port 10/100/1000Base-T RJ-45 with IEEE 802.3af / 802.3at PoE Injector
- 2-port SFP slot interface, SFP supports 1000Base-X and 100Base-FX transceiver via DIP switch configured

Power over Ethernet

- Complies with IEEE 802.3af / IEEE 802.3at Power over Ethernet Plus End-Span PSE
- Up to 4 IEEE 802.3af / 802.3at devices powered
- Supports PoE Power up to 30.8 watts for each PoE port
- Provides DC 52V power over RJ-45 Ethernet cable to PD with Ethernet port
- Auto-detects IEEE 802.3af/at equipment and protects devices from being damaged by incorrect installation
- Remote power feeding up to 100m

Layer 2 Features

- Supports Auto-Negotiation and 10/100Mbps half / full duplex and 1000Mbps full duplex mode
- Prevents packet loss with back pressure (half-duplex) and IEEE 802.3x PAUSE frame flow control (full-duplex)
- Automatic address learning and address aging

Industrial Case / Installation

- IP30 aluminum metal case protection
- Dual SFP Ports Auto Link Redundant Mode Support
- DIN Rail and Wall Mount Design
- 24~48V DC redundant power with polarity reverse protect function and connective removable terminal block for master and slave power
- Supports 6000 VDC Ethernet ESD and Surge protection
- -40 to 75 degrees C operating temperature

Model	GNT624-I
Hardware Specifications	
Copper Ports	4 x 10/100/1000Base-T RJ-45 TP Auto-MDI/MDI-X, Auto-Negotiation
SFP / mini-GBIC Slots	2 x SFP interfaces Supports 1000Base-SX/LX and 100Base-FX SFP transceivers
DIP Switch	° DIP-1: SFP Port 5 1000Base-X (default) / 100Base-FX ° DIP-2: SFP Port 6 1000Base-X (default) / 100Base-FX ° DIP-3: Switch mode / Fiber Redundant mode
Connector	Removable 6-pin terminal block Pin 1/2 for Power 1; Pin 3/4 for fault alarm; Pin 5/6 for Power 2
Alarm	Provides one relay output for power fail Alarm Relay current carry ability: 1A @ DC 24V
LED	3 x LED for System and Power: ° Green: DC Power 1 ° Green: DC Power 2 ° Green: Power Fault 2 x LED for Per Copper Port (Port-1~Port-4): ° Green: 1000 LNK/ACT, Orange:100 LNK/ACT ° Orange: PoE In-use 1 x LED for Per mini-GBIC interface (Port-5 and Port-6) ° Green: LNK/ACT 4 x LED for PoE Power Usage (W) ° Orange: 30, 60, 90 and 120W
ESD Protection	6KV DC
EFT Protection	6KV DC
Enclosure	IP30 aluminum metal case
Installation	DIN rail kit and wall mount ear
Dimensions (W x D x H)	152 x 107x 72 mm
Weight	1539g
Power Requirements	48V DC, 5A max. or 24V DC, 10A max. Redundant power with polarity reverse protection function
Power Consumption / Dissipation	15.1 watts / 52 BTU (Full loading without PoE function) 135.1 watts / 461 BTU (Full loading with PoE function)
Power over Ethernet	
PoE Standard	IEEE 802.3af / IEEE 802.3at Power over Ethernet / PSE
PoE Power Supply Type	End-Span
Power Pin Assignment	1/2(+), 3/6(-)
PoE Power Output	Per port 52V DC, 275mA. Max. 15.4 watts (IEEE 802.3af) Per port 52V DC, 535mA. Max. 30 watts (IEEE 802.3at)
Max. number of Class 4 PD	4
Switch Specification	
Switch Processing Scheme	Store-and-Forward
Address Table	1K entries Back pressure for half duplex
Flow Control	IEEE 802.3x Pause Frame for full duplex
Switch Fabric	12Gbps
Throughput (packet per second)	8.93Mpps@64bytes
Jumbo Frame	10K
Speed	SX/LX: 2000Mbps (full-duplex) FX: 200Mbps (full-duplex) TP: 10/20Mbps, 100/200Mbps, 2000Mbps
Standards Conformance	
Standards Compliance	IEEE 802.3 Ethernet / 10Base-T IEEE 802.3u Fast Ethernet / 100Base-TX IEEE 802.3ab Gigabit Ethernet / 1000Base-T IEEE 802.3z Gigabit Ethernet / 1000Base-SX/LX IEEE 802.3x Full-Duplex Flow Control IEEE 802.3at High Power over Ethernet IEEE 802.3af Power over Ethernet IEEE 802.3az

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Regulation Compliance	FCC Part 15 Class A, CE
Stability Testing	IEC60068-2-32(Free fall)
	IEC60068-2-27(Shock)
	IEC60068-2-6(Vibration)
Environment	
Temperature	Operating: -40~75 degrees C Storage: -40~75 degrees C
Humidity	Operating: 5~95% (Non-condensing) Storage: 5~95% (Non-condensing)

Dimensions

