

24-Port 10/100TX 802.3at PoE + 2-Port 10/100/1000T + 1-Port Shared 1000X SFP Desktop Switch



Cost-optimized, Multi-mode Ethernet Switch for PoE Networking

To facilitate 32W PoE power network applications with the transmission, PLANET FGSD-2621P is equipped with 24 10/100BASE-TX Fast Ethernet ports, 2 extra Gigabit TP ports and 1 1000BASE-X SFP combo interface ideally suitable for centralized power management. With a total of 185 watts of PoE budget, it features high-performance Gigabit uplink and IEEE 802.3at PoE+ (up to 32W) capabilities.



Two Gigabit Uplink Ports

The FGSD-2621P provides two extra Gigabit TP ports and one 1000BASE-X SFP combo interface that enable the network administrators to increase their network bandwidth to relieve traffic congestion when the two 10/100/1000BASE-T or one w1000BASE-X uplink port are used to connect devices, such as NVR, video streaming server, NAS and more. With the combo design, the administrators can easily connect network devices no matter how large the network expansion is.

Perfect Integrated Solution for PoE IP Surveillance

The **FGSD-2621P** brings you an ideally secure surveillance system at a lower total cost. The **FGSD-2621P** provides 24 10/100Mbps 802.3at PoE+ ports able to feed sufficient PoE power to 24 IEEE 802.3af/IEEE 802.3at PoE+ IP cameras at the same time. It is also able to connect with one 24-channel NVR or three 8-channel NVRs, uplinked to backbone switch and the monitoring center. With such a high-performance switch architecture, the recorded video files from the PoE IP cameras can be saved to the NVR system where the administrator can control and monitor the surveillance images in both the local LAN and remote sites.

Physical Port

- 24 10/100BASE-TX RJ45 ports with IEEE 802.3at PoE+ injector function (ports 1~24)
- 2 10/100/1000BASE-T Gigabit RJ45 ports (ports 25~26)
- 1 1000BASE-X SFP interface (port 26)

Power over Ethernet

- Complies with IEEE 802.3at Power over Ethernet Plus endspan PSE
- Up to 24 ports of IEEE 802.3af/802.3at devices powered (ports 1~24)
- Supports PoE power up to 32 watts for each PoE port, with a total PoE budget of 185W.
- · Each port supports 55V DC power to PoE powered device.
- · Auto detects powered device (PD)
- · Supports PD alive function.
- Circuit protection prevents power interference between ports.
- Remote power feeding up to 100m in standard mode with 250m in extend mode

Switching

- Hardware-based 10/100Mbps and 10/100/1000Mbps autonegotiation and auto MDI/MDI-X
- Supports IEEE 802.3x flow control in full-duplex mode and backpressure in half-duplex mode
- Integrates address look-up engine, supporting 16K absolute MAC addresses
- · 16K jumbo frame supports 1000Mbps speed
- Hardware-based DIP switch for Standard, VLAN or Extend mode selection:
 - VLAN mode: Ports 1 to 24 cannot communicate with each other, but can communicate with the uplink ports 25 to 26 and SFP port 26.
 - Extend mode: Ports 1 to 8 have data rate of 10Mbps.
 The farthest transmission distance is up to 250 meters and all ports can communicate with each other.
- VLAN mode is to isolate ports to prevent broadcast storm and defend DHCP spoofing
- · Automatic address learning and address aging
- Supports Energy-Efficient Ethernet (EEE) function (IEEE 802.3az)





Hardware

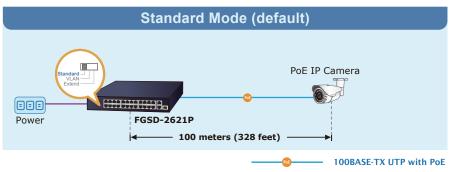
- 11-inch desktop size, 1U height.
- LED indicators for system power, per port PoE ready and PoE activity, speed, link/act
- 1 silent fan to provide stable and efficient power performance
- Supports contact discharge of ±6KV DC and air distance discharge of ±8KV DC for Ethernet ESD protection
- · Supports ±6KV surge immunity

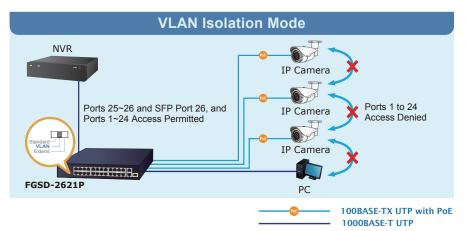
Ethernet Data Transmission Distance Extension

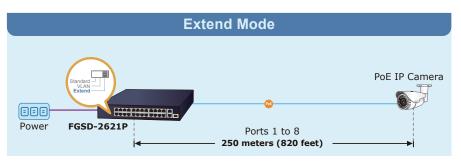
The DIP switch provides "Standard", "VLAN" and "Extend" operation modes.

- The FGSD-2621P operates as a normal IEEE 802.3at PoE+ switch in the "Standard" operation mode.
- The "VLAN" operation mode features port-based VLAN function that helps to prevent the IP camera's multicast or broadcast storm from influencing each other.
- In the "Extend" operation mode, the FGSD-2621P operates on a per-port basis at 10Mbps duplex operation but supports 20-watt PoE power output over a distance of up to 250 meters overcoming the 100m limit on Ethernet UTP cable.

With this brand-new feature, the **FGSD-2621P** provides an additional solution for 802.3at PoE+ distance extension, thus saving the cost of Ethernet cable installation.









Powered Device Alive Check

The FGSD-2621P adopts not only Power over Ethernet technology, but also automated PD monitoring and real-time PoE status.

The PD alive check feature is applied in Standard, VLAN and Extend modes. After the PoE of the port is powered on, the device starts to detect whether the port is transmitting data. If the port does not transmit data and the duration exceeds a specific time, PoE will automatically power off and then re-power. It also will greatly enhance the network reliability in that the PoE port will reset the PD power, thus reducing administrator's management burden.

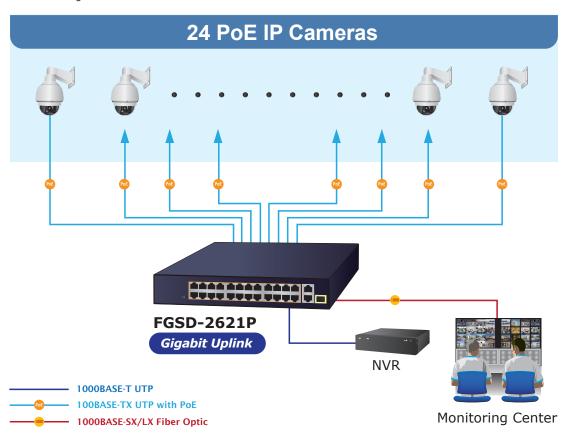
Flexible Extension Solution

The two mini-GBIC slots built in the **FGSD-2621P** are compatible with the 1000BASE-SX/LX SFP (Small Form-factor Pluggable) fiber transceiver, uplinked to backbone switch and monitoring center in long distance. The distance can be extended from 550 meters (multi-mode fiber) to 20/40/80/120 kilometers (single-mode fiber or WDM fiber). They are well suited for applications within the enterprise data centers and distributions.

Applications

Perfectly Integrated Solution for IP PoE Camera and NVR System

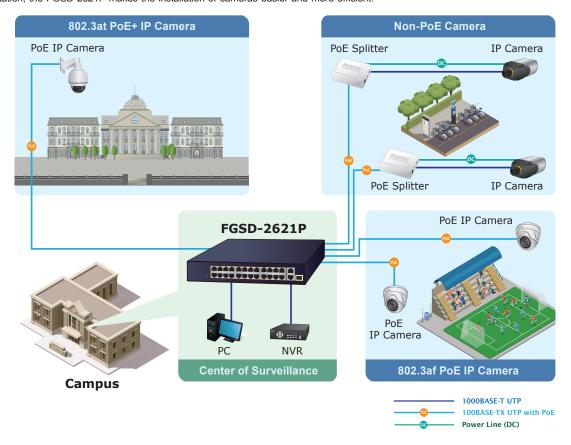
Particularly designed for the growing popular IP Surveillance applications, the FGSD-2621P 802.3at PoE Switch is positioned as a Surveillance Switch for quick and easy PoE IP camera deployment with power feeding. The FGSD-2621P provides both 802.3at and 802.3af PoE functions along with 24 10/100BASE-TX ports featuring 32-watt 802.3at or 15.4-watt 802.3af PoE in RJ45 interface, 2 extra Gigabit copper ports and 1 Gigabit SFP uplink interfaces supporting high-speed transmission of surveillance images and videos.





Department / Workgroup PoE Network

Providing 24 PoE in-line power interfaces, the FGSD-2621P can easily build a power that can centrally control IP phone system, IP camera system and wireless AP group for the enterprise. Cameras can be installed around the corner in the company or campus for surveillance demands. Without the power-socket limitation, the FGSD-2621P makes the installation of cameras easier and more efficient.





Specifications

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Model	FGSD-2621P				
Hardware Specifications					
Foot Ethomost Common Dodg	24 x 10/100BASE-TX RJ45 auto-MID/MDI-X Port				
Fast Ethernet Copper Ports	Supports IEEE 802.3at PoE+ Injector				
0	2 x 10/100/1000BASE-T RJ45 auto-MDI/MDI-X ports				
Gigabit Ethernet Copper Ports	(Port 26 shared with SFP port)				
Gigabit SFP Ports	1 x 1000BASE-SX/LX/BX SFP interface (shared with Port 26)				
	Selectable operation mode				
	■ Standard				
DIP Switch	■ VLAN				
	■ Extend				
Dimensions (W x D x H)	280 x 180 x 44 mm (1U height)				
Enclosure	Metal				
Weight	1870g				
Power Requirements	100~240V AC, 50/60Hz, 5A max.				
Power Consumption/Dissipation	Max. 217 watts/740 BTU				
Thermal Fan	1				
	Contact discharge of ±6KV DC,				
ESD Protection	Air discharge of ±8KV DC				
Surge Protection	Differential Mode ±4KV, Common Mode ±6KV				
Installation	Desktop or rack-mount installation				
	System				
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	Power (Green) PoE Max. (Green)				
	10/100/1000T RJ45 Interfaces				
LED	10/100/1000 LNK / ACT (Green)				
	PoE-in-Use (Amber)				
	1000X SFP Interfaces				
	1000 LNK / ACT (Green)				
Continue a	1000 LINK / ACT (Green)				
Switching Switch Architecture	Chara and Canuard				
Switch Architecture	Store-and-Forward				
Switch Fabric	8.8Gbps/non-blocking				
Switch Throughput@64bytes	6.5Mpps				
MAC Address Table	16K entries				
Jumbo Frame	16K bytes				
Flow Control	IEEE 802.3x pause frame for full duplex; back pressure for half duplex				
Power over Ethernet	IFFE 200 A LD				
PoE Standard	IEEE 802.3at Power over Ethernet Plus/PSE				
PoE Injector Ports	24				
PoE Power Supply Type	End-span: 1/2 (+), 3/6 (-)				
PoE Power Output	Per port 55V DC, 600mA. max. 32 watts				
PoE Power Budget	185 watts				
Number of PDs, 7 watts	24				
Number of PDs, 15.4 watts	12				
Number of PDs, 30 watts	6				
Standards Conformance					
Regulatory Compliance	FCC Part 15 Class A, CE				
	IEEE 802.3 10BASE-T				
	IEEE 802.3u 100BASE-TX				
	IEEE 802.3ab Gigabit 1000BASE-T				
Standards Compliance	IEEE 802.3z Gigabit SX/LX				
	IEEE 802.3x flow control and back pressure				
	IEEE 802.3af Power over Ethernet				
	IEEE 802.3at Power over Ethernet Plus				
	IEEE 802.3az Energy-Efficient Ethernet				
Environment					
Operating	Temperature: 0 ~ 50 degrees C				
Operating	Relative Humidity: 5~ 95% (non-condensing)				
Storage	Temperature: -10 ~ 70 degrees C				
Storage	Relative Humidity: 5 ~ 95% (non-condensing)				



Ordering Information

FGSD-2621P 24-Port 10/100TX 802.3at PoE + 2-Port 10/100/1000T + 1-Port Shared 1000X SFP Desktop Switch

Related PoE Products

FGSD-1821P	16-Port 10/100TX 802.3at PoE + 2-Port 10/100/1000T + 1-Port Shared 1000X SFP Desktop Switch
ICA-HM620	2 Mega-pixel PoE Plus Speed Dome Internet Camera
ICA-E6260	2 Mega-pixel PoE Plus Speed Dome IP Camera
VIP-1120PT	High Definition Color PoE IP Phone
VIP-1260PT	High Definition Color PoE IP Phone
VTS-700P	7-inch SIP Indoor Touch Screen PoE Video Intercom
HDP-5240PT	720p SIP Multi-unit Door Phone with RFID and PoE
HDP-5260PT	720p SIP Multi-unit Apartment Vandalproof Door Phone with RFID and PoE
POE-161S	IEEE 802.3at Gigabit Power over Ethernet Plus Splitter with 5V/12VDC Output (10/100/1000Mbps)
POE-162S	IEEE 802.3at Gigabit Power over Ethernet Plus Splitter with 12V/24VDC Output (10/100/1000Mbps)
IPOE-162S	Industrial IEEE 802.3at Gigabit High Power over Ethernet Splitter
POE-E201	IEEE 802.3at Power over Gigabit Ethernet Extender
POE-E202	1-Port 802.3at PoE+ to 2-Port 802.3af/at Gigabit PoE Extender
LRP-101C-KIT	1-Port Long Reach PoE over Coax Extender Kit (LRP-101CH + LRP-101CE)
LRP-101U-KIT	1-Port Long Reach PoE over UTP Extender Kit (LRP-101UH + LRP-101UE)

Available 1000Mbps Modules

Gigabit Ethernet Transceiver (1000BASE-X SFP)

Model	DDM	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (nm)	Operating Temp.
MGB-GT		1000	Copper		100m		0 ~ 60 degrees C
MGB-SX	YES	1000	LC	Multi Mode	550m	850nm	0 ~ 60 degrees C
MGB-SX2	YES	1000	LC	Multi Mode	2km	1310nm	0 ~ 60 degrees C
MGB-LX	YES	1000	LC	Single Mode	20km	1310nm	0 ~ 60 degrees C
MGB-L40	YES	1000	LC	Single Mode	40km	1310nm	0 ~ 60 degrees C
MGB-L80	YES	1000	LC	Single Mode	80km	1550nm	0 ~ 60 degrees C
MGB-L120	YES	1000	LC	Single Mode	120km	1550nm	0 ~ 60 degrees C
MGB-TSX	YES	1000	LC	Multi Mode	550m	850nm	-40 ~ 75 degrees C
MGB-TSX2	YES	1000	LC	Multi Mode	2km	1310nm	-40 ~ 75 degrees C
MGB-TLX	YES	1000	LC	Single Mode	20km	1310nm	-40 ~ 75 degrees C
MGB-TL40	YES	1000	LC	Single Mode	40km	1310nm	-40 ~ 75 degrees C
MGB-TL80	YES	1000	LC	Single Mode	80km	1550nm	-40 ~ 75 degrees C

Gigabit Ethernet Transceiver (1000BASE-BX, Single Fiber Bi-directional SFP)

Model	DDM	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (TX)	Wavelength (RX)	Operating Temp.
MGB-LA10	YES	1000	WDM(LC)	Single Mode	10km	1310nm	1550nm	0 ~ 60 degrees C
MGB-LB10	TES	1000	WDM(LC)	Single Mode	10km	1550nm	1310nm	0 ~ 60 degrees C
MGB-LA20	\/F0	1000	WDM(LC)	Single Mode	20km	1310nm	1550nm	0 ~ 60 degrees C
MGB-LB20	YES	1000	WDM(LC)	Single Mode	20km	1550nm	1310nm	0 ~ 60 degrees C
MGB-LA40	YES	1000	WDM(LC)	Single Mode	40km	1310nm	1550nm	0 ~ 60 degrees C
MGB-LB40	IES	1000	WDM(LC)	Single Mode	40km	1550nm	1310nm	0 ~ 60 degrees C
MGB-LA80	YES	1000	WDM(LC)	Single Mode	80km	1490nm	1550nm	0 ~ 60 degrees C
MGB-LB80		1000	WDM(LC)	Single Mode	80km	1550nm	1490nm	0 ~ 60 degrees C
MGB-TLA10	YES	1000	WDM(LC)	Single Mode	10km	1310nm	1550nm	-40 ~ 75 degrees C
MGB-TLB10	TES	1000	WDM(LC)	Single Mode	10km	1550nm	1310nm	-40 ~ 75 degrees C
MGB-TLA20	YES	1000	WDM(LC)	Single Mode	20km	1310nm	1550nm	-40 ~ 75 degrees C
MGB-TLB20	TES	1000	WDM(LC)	Single Mode	20km	1550nm	1310nm	-40 ~ 75 degrees C
MGB-TLA40	YES	1000	WDM(LC)	Single Mode	40km	1310nm	1550nm	-40 ~ 75 degrees C
MGB-TLB40	IES	1000	WDM(LC)	Single Mode	40km	1550nm	1310nm	-40 ~ 75 degrees C
MGB-TLA80	YES	1000	WDM(LC)	Single Mode	80km	1490nm	1550nm	-40 ~ 75 degrees C
MGB-TLB80	153	1000	WDM(LC)	Single Mode	80km	1550nm	1490nm	-40 ~ 75 degrees C

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