# 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.
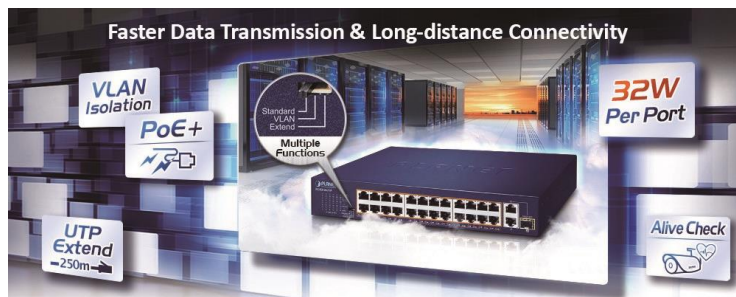
Two Gigabit Uplink Ports

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 end-span 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 auto-negotiation and auto MDI/MDI-X
- Supports IEEE 802.3x flow control in 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
- Automatic address learning and address aging
- Supports Energy-Efficient Ethernet (EEE) function 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.
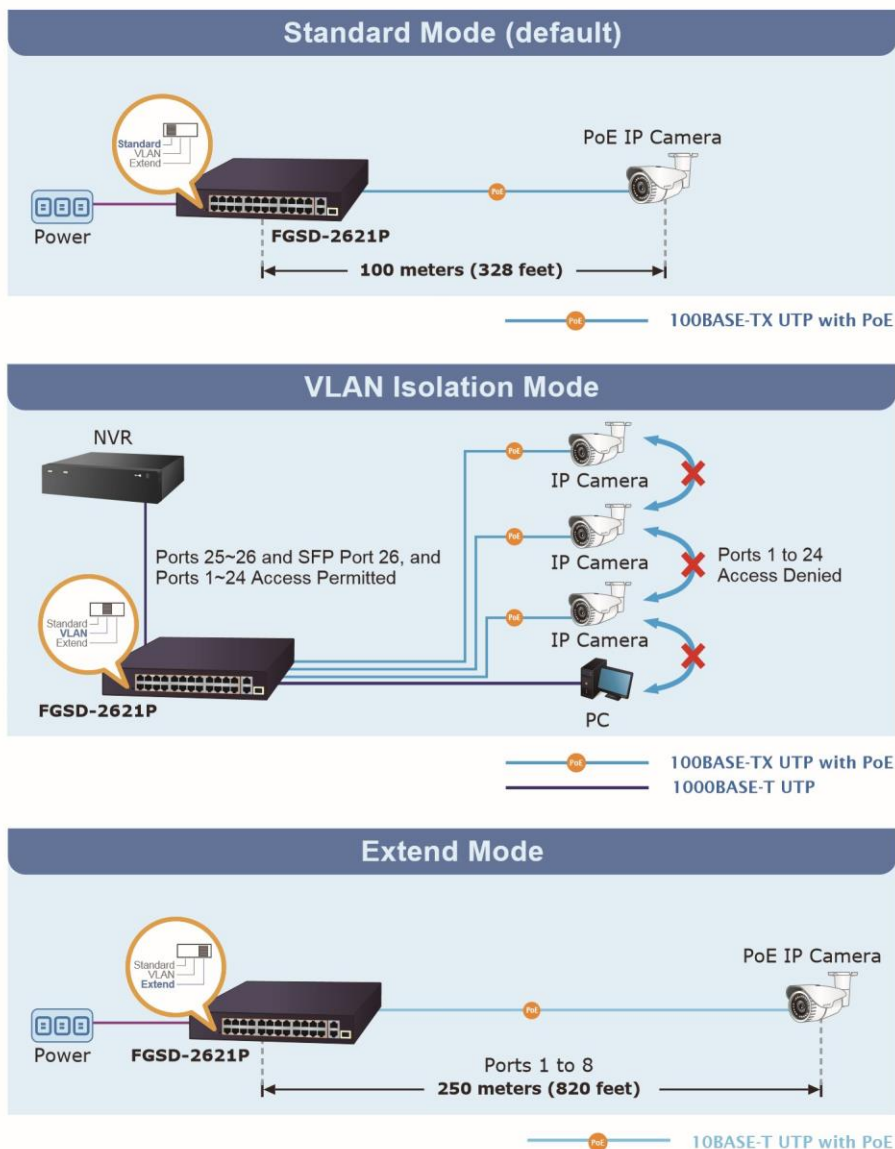
Powered Device Alive Check

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.

24 PoE IP Cameras

FGSD-2621P
Gigabit Uplink

NVR

Monitoring Center

— **1000BASE-T UTP**
— **100BASE-TX UTP with PoE**
— **1000BASE-SX/LX Fiber Optic**