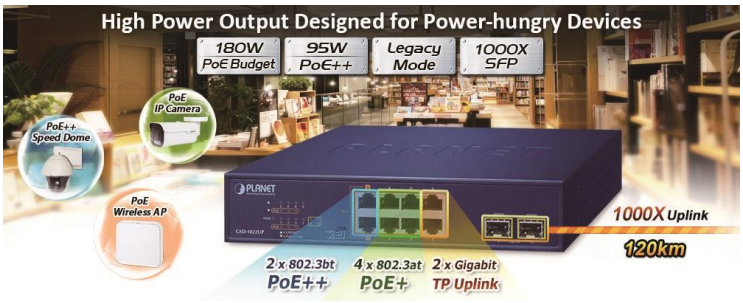
GSD-1022UP

2-Port 10/100/1000T 802.3bt PoE + 4-Port 10/100/1000T 802.3at PoE + 2-Port 10/100/1000T + 2-Port 1000X SFP Desktop Switch (180 Watts)

Flexible, Extendable and Centralized Power Distribution

PLANET GSD-1022UP is the unmanaged Gigabit PoE switch equipped with **two 802.3 bt PoE++ ports** , **four 802.3at PoE+ ports** , **two extra Gigabit TP ports** and **two Gigabit SFP interfaces for uplink port** . With a total PoE power budget of 180 watts and non-blocking data switching performance, the GSD-1022UP can fulfill the demand of sufficient PoE power for Wi-Fi system in a small-scale but high-performance network.



Ideal Solution for SOHO to Have IP Surveillance Secure

As IP surveillance is in great demand, the GSD-1022UP is also best used as a Surveillance Switch to supply PoE power to PoE IP cameras without requiring an extra cabling or electrical outlet, making the deployment of cameras quick and convenient. The GSD-1022UP supports two 802.3bt PoE++ ports and four 802.3at PoE+ ports along with 6 10/100/1000BASE-T ports featuring up to 95 or 32 watts, two extra Gigabit Ethernet TP interfaces and **two Gigabit SFP uplink ports** to ensure high-speed data and video transmission, reliable assurance for connection between the surveillance system and outside network where all the PoE ports can be used to their full potential.

Plug and Play High Power Sourcing Solution

Complying with the IEEE 802.3bt PoE++ technology, the GSD-1022UP provides up to 95 watts of PoE output power, tripling that of the earlier 802.3at PoE+ technology. The GSD-1022UP also can be backward compatible with 802.3af/at PoE standards to allow users to flexibly deploy standard and high simultaneously with no need of software configuration. With data and Power over

Physical Port

- 2-port 10/100/1000BASE-T Gigabit RJ45 copper with IEEE 802.3bt PoE++ injector function
- 4-port 10/100/1000BASE-T Gigabit RJ45 copper with IEEE 802.3at PoE+ injector function
- Two 10/100/1000BASE-T Gigabit RJ45 copper interfaces
- Two 1000BASE-X SFP interfaces

Power over Ethernet

- Complies with IEEE 802.3af/at/bt Power over Ethernet end-span PSE
- 2 ports for IEEE 802.3bt PDs and 4 ports for IEEE 802.3af/at PDs
- Supports PoE power up to 95 watts for PoE ports 1 to 2, 32 watts for PoE ports 3 to 6
- Each port supports 56V DC power to PoE PD
- 180-watt PoE budget
- Auto detects powered device (PD)
- Circuit protection prevents power interference between ports
- Supports PoE in BT, Legacy and UPoE mode

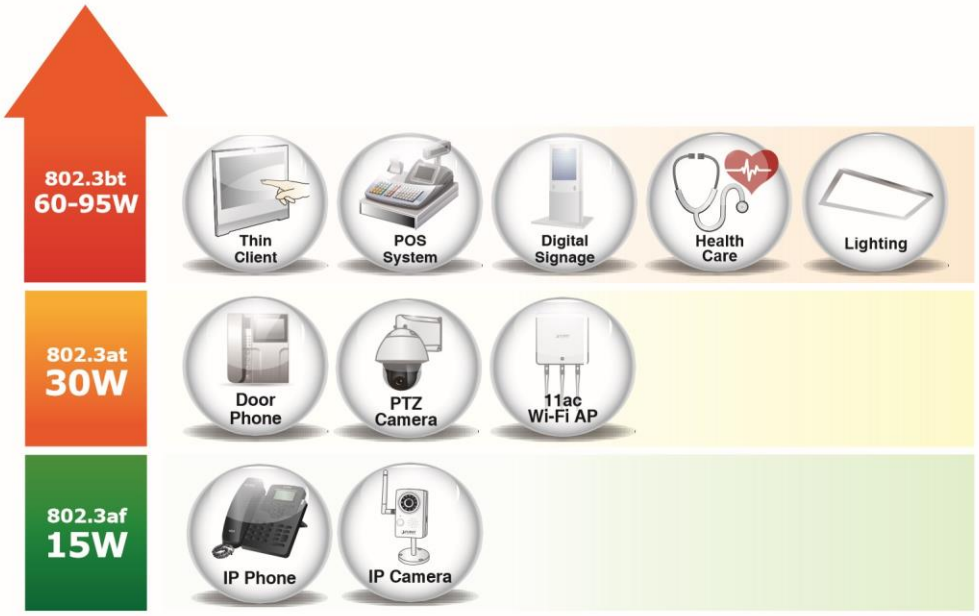
Switching

- Hardware-based 10/100/1000Mbps auto-negotiation and auto MDI/MDI-X
- Flow control for full duplex operation and back pressure for half duplex operation
- Integrates address look-up engine, supporting 4K absolute MAC addresses
- Automatic address learning and address aging
- 9K jumbo frame supports all speeds (10/100/1000Mbps)

Hardware

- 9-inch desktop size, 1U height, rack mountable, wall-mountable
- LED indicators for PoE ready/activity and LINK/ACT
- 1 silent fan to provide stable a
- Supports Energy-Efficient Ethernet (EEE) function (I 802.3az)

Ethernet from one unit, the GSD-1022UP can reduce cable deployment and eliminate the need for dedicated electrical outlets on the wall, ceiling or any unreachable place.



802.3bt PoE++ and DIP Switch for PoE Power Output Mode Options

To meet the demand of various powered devices consuming stable PoE power, the GSD-1022UP provide one DIP switch for multi-PoE operation modes that include 95-watts UPOE, BT and Legacy mode to solve the incompatibility of non-standard 4-pair PoE PDs in the field.

- **802.3bt PoE++ Power Output Mode**
- **UPOE Power Output Mode**
- **Legacy Power Output Mode**

PoE Mode	Function
BT	This mode fully supports IEEE 802.3af/at/bt standards.
UPOE	This mode fully supports Cisco UPoE standards or PoH standards.
Legacy	The legacy detection is to identify the valid current signature of the PDs that do not fully follow the IEEE 802.3af/at/bt standard. This protects against damage to the PDs as the right PoE mode is applied.

Flexible Extension Solution

The GSD-1022UP provides 2 extra 10/100/1000BASE-T RJ45 copper for surveillance network devices such as NVR, video streaming server or NAS to facilitate surveillance management. Or through these Gigabit speed fiber SFP slots, the 1000BASE-SX/LX SFP (Small Form-factor Pluggable) fiber transceiver is inserted to be uplinked to a backbone switch and monitoring center over a long distance. The distance can be extended from 550m to 2km (multi-mode fiber), even going up to above 10/20/30/40/50/60/70/120km (single-mode fiber or WDM fiber). They are well suited for applications within the enterprise data centers and distributions.

Environment-friendly, Robust Protection

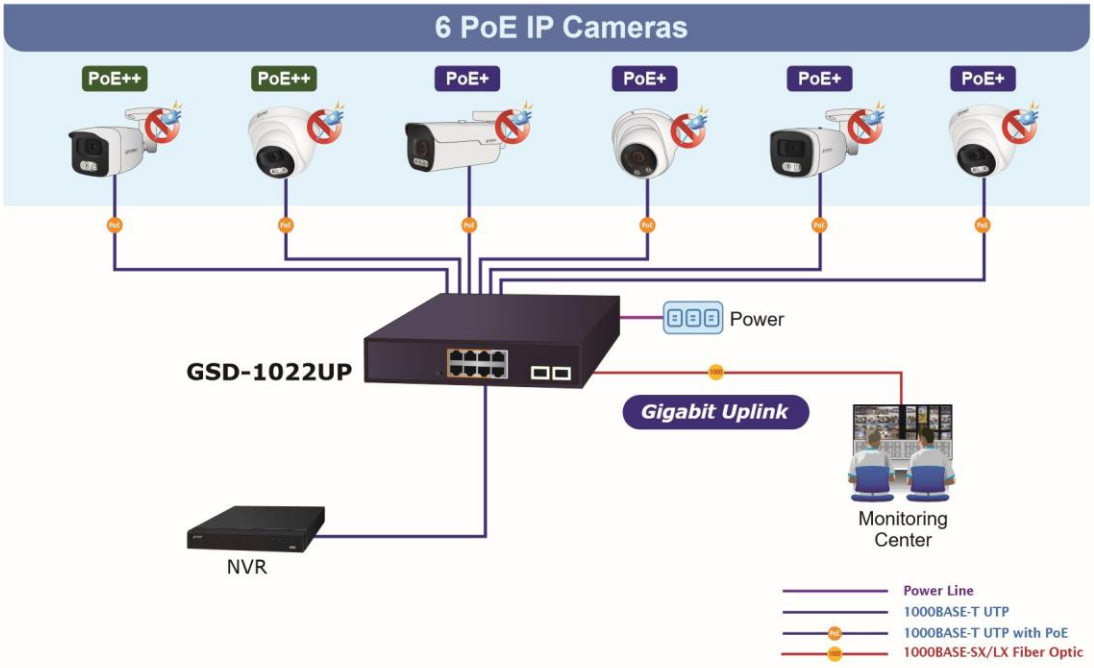
The GSD-1022UP comes with a desktop-sized, compact metal housing, making the placement of the unit convenient. Moreover, the GSD-1022UP is able to operate reliably and stably in any environment without affecting its performance. The deployment of PoE PDs with constant power feeding can be easily and quickly done.

The GSD-1022UP protects against the ESD **6KV** surge to improve product stability and also protects users' networks from devastating ESD attacks, making sure the flow of operation does not fluctuate.

Applications

Perfectly-integrated Solution for PoE IP Camera and NVR System

The GSD-1022UP provides **two 802.3bt PoE++ ports**, **four 802.3at PoE+ ports**, **two extra Gigabit TP ports** and **two Gigabit SFP interfaces for uplink port** for catering to small-scale home and SOHO IP surveillance networks at a lower total cost. The GSD-1022UP comes with a high-performance switch architecture and **180-watt** PoE power budget. The recorded video files from all the PoE IP cameras powered by the GSD-1022UP are saved to the NVR system.



IP Office Department/Workgroup PoE Switch

To further expand the office premises, the additional telephones required could be installed at less cost via the PoE IP telephony system, better than the traditional circuit wiring telephony system. The GSD-1022UP PoE++ Switch helps enterprises to create an integrated data, voice, and powered network. The IEEE 802.3af/at compliant IP phones can be installed without the need of an additional power cable because the power can be provided via the standard Ethernet cable from the connected GSD-1022UP. With the GSD-1022UP, IP telephony deployment becomes more reliable and cost effective, thus helping enterprises save tremendous cost when upgrading from the traditional telephony system to IP telephony communications infrastructure.