

# GSD-2022P

# 16-Port 10/100/1000T 802.3at PoE + 2-Port 10/100/1000T + 2-Port 1000X SFP Desktop Switch



#### Centralized Power Management for Gigabit Ethernet PoE Networking

To facilitate 32W PoE power network applications with Gigabit speed transmission, the GSD-2022P is equipped with **16 10/100/1000BASE-T Gigabit Ethernet ports**, 2 extra Gigabit TP ports and **2 1000BASE-X SFP** interfaces with the inner power system. With a total of 185 watts of PoE budget, it features high-performance Gigabit IEEE 802.3af PoE (up to 15.4W) and IEEE 802.3at PoE+ (up to 32W) capabilities on all ports.

By offering reliable switching technology and advanced networking features, the GSD-2022P optimizes the installation and power management of network devices such as wireless access points, VoIP phones, and security cameras. It also eliminates time and cost of deployment by integrating power and data switching into one unit and freeing network devices from restrictions of power outlet locations and the additional AC wiring.



### Perfect Integrated Solution for PoE IP Surveillance

The GSD-2022P brings you an ideally secure surveillance system at a lower total cost. The GSD-2022P provides 16 10/100/1000Mbps 802.3at PoE+ ports able to feed sufficient PoE power to 16 IEEE 802.3af/IEEE 802.3at PoE+ IP cameras at the same time. It is also able to connect with one 16-channel NVR or two 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**

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

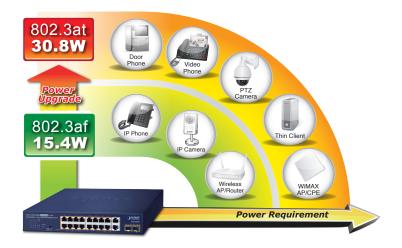
### Power over Ethernet

- Complies with IEEE 802.3at Power over Ethernet end-span
   PSE
- Up to 16 ports of IEEE 802.3af/802.3at devices powered (ports 1~16)
- Supports PoE power up to 32 watts for each PoE port, with a total PoE budget of 185W.
- Each port supports 54V 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 10/100/1000Mbps auto-negotiation 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 8K absolute MAC addresses
- 9K jumbo frame supports all speeds (10/100/1000Mbps)
- Hardware DIP switch for Standard, VLAN and Extend mode selection;
  - VLAN mode: Ports 1 to 16 cannot communicate with each other, but can communicate with the uplink ports 17 to 18 and SFP ports 19 to 20
  - Extend mode: Ports1 to 8 have data rate of 10Mbps. The farthest transmission distance of 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

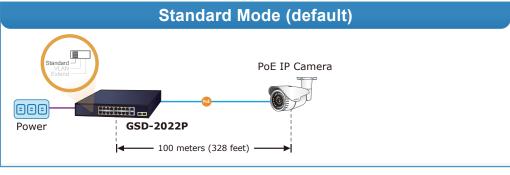
- 12-inch desktop size, 1U height
- LED indicators for system power, per port PoE ready and PoE activity, speed, Link/Act
- 1 silent fan to provide stable and efficient power performance
- Supports contact discharge of ±6KV DC and air distance discharge of ±8KV DC for Ethernet ESD protection
- Supports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

### Ethernet Data Transmission Distance Extension

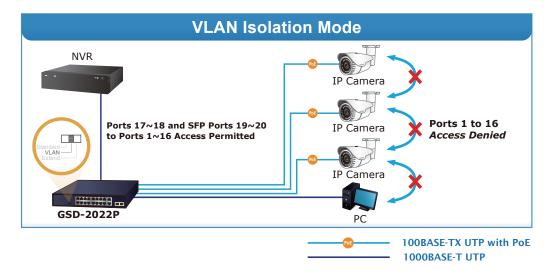
The DIP switch provides "Standard", "VLAN" and "Extend" operation modes.

- The GSD-2022P 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 GSD-2022P 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.

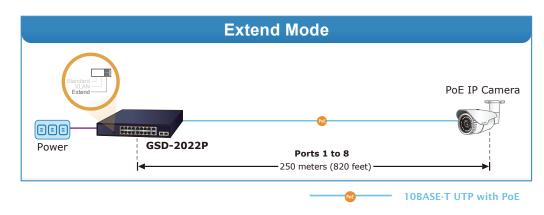
With this brand-new feature, the GSD-2022P provides an additional solution for 802.3at PoE+ distance extension, thus saving the cost of Ethernet cable installation.











### Powered Device Alive Check

The GSD-2022P 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 repower. It also will greatly enhance the network reliability in that the PoE port will reset the PD power, thus reducing administrator's management burden.

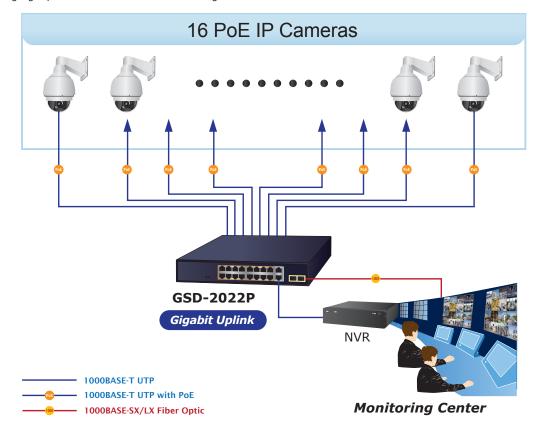
### Flexible Extension Solution

The two mini-GBIC slots built in the GSD-2022P 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 10/20/30/40/50/60/70/120 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

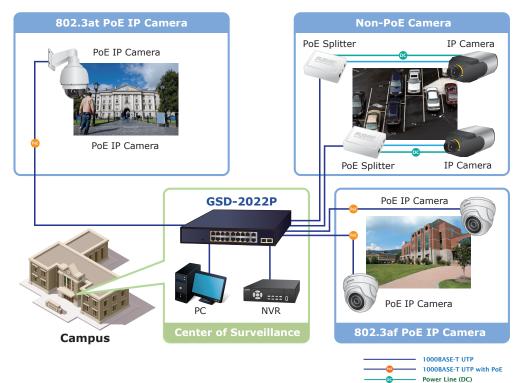
Particularly designed for the growing popular IP Surveillance applications, the GSD-2022P 802.3at PoE Switch is positioned as a Surveillance Switch for quick and easy PoE IP camera deployment with power feeding. The GSD-2022P provides both 802.3at and 802.3af PoE functions along with 16 10/100/1000BASE-TX ports featuring 30-watt 802.3at or 15.4-watt 802.3af PoE in RJ45 interface, 2 extra Gigabit copper ports and 2 Gigabit SFP uplink interfaces supporting high-speed transmission of surveillance images and videos.





### Department / Workgroup PoE Network

Providing 16 PoE in-line power interfaces, the GSD-2022P 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 GSD-2022P makes the installation of cameras easier and more efficient.



# Specifications

Model	GSD-2022P				
Hardware Specifications					
10/100/1000BASE-T Copper Ports	18 auto MDI/MDIX				
1000BASE-X SFP/mini-GBIC Slots	2				
	Selectable operation mode				
DIP Switch	■ Standard				
	■ VLAN				
	■ Extend				
	System				
	Power (Green)				
	10/100/1000T RJ45 Interfaces				
LED Indicators	10/100/1000 LNK / ACT (Green)				
	PoE-in-Use(Amber)				
	1000X SFP Interfaces				
	1000 LNK / ACT (Green)				
Dimensions (W x D x H)	280 x 180 x 44 mm (1U height)				
Enclosure	Metal				
Weight	1810g				
Power Requirements	100~240V AC, 50/60Hz, 5A max.				
Power Consumption/Dissipation	Max. 201 watts/686 BTU				
Thermal Fan	1				
COD Protection	Contact discharge of ±6KV DC,				
ESD Protection	Air discharge of ±8KV DC				
Surge Protection	±6KV				
Installation	Desktop or rack-mount installation				
Switching					
Switch Architecture	Store-and-Forward				
Switch Fabric	40Gbps/non-blocking				
Switch Throughput@64bytes	29.76Mpps				
MAC Address Table	8K entries				



Jumbo Frame	9216 bytes					
Flow Control	IEEE 802.3x pause frame for full duplex; back pressure for half duplex					
Power over Ethernet						
PoE Standard	IEEE 802.3at Power over Ethernet Plus/PSE					
PoE Injector Ports	16					
PoE Power Supply Type	End-span/Mid-span: 1/2/4/5 (+), 3/6/7/8 (-)					
PoE Power Output	Per port 54V DC, 300mA. max. 15.4 watts (IEEE 802.3af)					
FOE FOWER Output	Per port 54V DC, 600mA. max. 30 watts (IEEE 802.3at)					
PoE Power Budget	185 watts					
Number of PDs, 7 watts	16					
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					
	IEEE 802.3z Gigabit SX/LX					
Standards Compliance	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						
	Temperature: 0 ~ 50 degrees C					
Operating	Relative Humidity: 5 ~ 95% (non-condensing)					
	Temperature: -10 ~ 70 degrees C					
Storage	Relative Humidity: 5 ~ 95% (non-condensing)					

# **Ordering Information**

GSD-2022P

16-Port 10/100/1000T 802.3at PoE + 2-Port 10/100/1000T + 2-Port 1000X SFP Desktop Switch

# **Related Products**

ICA-A4280	H.265 1080p Smart IR Dome IP Camera with Artificial Intelligence
ICA-A3280	H.265 1080p Smart IR Bullet IP Camera with Artificial Intelligence
ICA-M4580P	H.265 5 Mega-pixel Smart IR Dome IP Camera with Remote Focus and Zoom
ICA-M3580P	H.265 5 Mega-pixel Smart IR Bullet IP Camera with Remote Focus and Zoom
ICA-4280	H.265 1080p Smart IR Dome IP Camera
ICA-3280	H.265 1080p Smart IR Bullet IP Camera
ICA-4460V	H.265 4MP PoE Dome IR IP Camera with Vari-focal Lens
ICA-3460V	H.265 4MP PoE Bullet IR IP Camera with Vari-focal Lens
ICA-4250	1080p IR Dome PoE IP Camera
ICA-3250	1080p IR Bullet PoE IP Camera
ICA-HM620	2 Mega-pixel PoE Plus Speed Dome Internet Camera
ICA-E8550	5 Mega-pixel Outdoor IR PoE Fisheye IP Camera
ICA-E6260	2 Mega-pixel PoE Plus Speed Dome IP Camera
WNAP-W2200UE	300Mbps 802.11n In-Wall Wireless Access Point
WDAP-C7200E	1200Mbps 802.11ac Dual Band Ceiling-mount Wireless Access Point
WDAP-1750AC	1750Mbps 802.11ac Dual Band Wall Mount Wireless Access Point
WNAP-C3220E	300Mbps 802.11n Wireless Ceiling-mount Access Point
WBS-202N	2.4GHz 802.11n 300Mbps Outdoor Wireless CPE (Built-in 14dBi Antenna)
WBS-502N	5GHz 802.11a/n 300Mbps Outdoor Wireless CPE (Built-in 15dBi Antenna)
WBS-512AC	5GHz 802.11ac 900Mbps Outdoor Wireless CPE
WDAP-802AC	1200Mbps Dual Band 802.11ac Outdoor Wireless AP
WDAP-8350	600Mbps Dual Band 802.11n Outdoor Wireless CPE
WAP-252N	2.4GHz 300Mbps 802.11n Outdoor Wireless AP



P-120PTHigh Definition Color PoE IP PhoneP-120PTHigh Definition Color PoE IP Phone with Dual DisplayF-1800HD Touch Screen Android Multimedia Conferencing PhoneS-700P7-inch SIP Indoor Touch Screen PoE Video IntercomPP-1160PT720p SIP Vandalproof Door Phone with PoEPP-5240PT720p SIP Multi-unit Door Phone with RFID and PoEPP-5260PT720p SIP Multi-unit Apartment Vandalproof Door Phone with RFID and PoEPP-5260PTSIP Telephone Adapter (1 x LAN, 1 x PC, 1 x RJ11, 802.3af PoE)PE-162SIEEE 802.3at Gigabit Power over Ethernet Plus Splitter with 5V/12VDC output (10/100/1000Mbps)PE-162SIndustrial IEEE 802.3at Gigabit Power over Ethernet Plus Splitter with 12V/24VDC output (10/100/1000Mbps)PE-162SIEEE 802.3at Gigabit Power over Ethernet Plus Splitter with 12V/24VDC output (10/100/1000Mbps)PE-162SIEEE 802.3at Gigabit Power over Ethernet Plus Splitter with 12V/24VDC output (10/100/1000Mbps)PE-162SIEEE 802.3at Gigabit Power over Ethernet Plus Splitter with 12V/24VDC output (10/100/1000Mbps)PE-162SIndustrial IEEE 802.3at Gigabit High Power over Ethernet SplitterPE-201IEEE 802.3at Power over Ethernet ExtenderPE-2021-port 802.3at Poet to 2-port 802.3af/at Gigabit Poe ExtenderPE-2021-port Long Reach PoE over coax Extender Kit (LRP-101CH + LRP-101CE)	WAP-552N	5GHz 300Mbps 802.11n Outdoor Wireless AP
P-2140PTHigh Definition Color PoE IP Phone with Dual DisplayF-1800HD Touch Screen Android Multimedia Conferencing PhoneS-700P7-inch SIP Indoor Touch Screen PoE Video IntercomPP-1160PT720p SIP Vandalproof Door Phone with PoEP-5240PT720p SIP Multi-unit Door Phone with RFID and PoEP-5260PT720p SIP Multi-unit Apartment Vandalproof Door Phone with RFID and PoEP-5260PT720p SIP Multi-unit Apartment Vandalproof Door Phone with RFID and PoEP-5640PTSIP Telephone Adapter (1 x LAN, 1 x PC, 1 x RJ11, 802.3af PoE)PE-161SIEEE 802.3at Gigabit Power over Ethernet Plus Splitter with 5V/12VDC output (10/100/1000Mbps)PE-162SIEEE 802.3at Gigabit Power over Ethernet Plus Splitter with 12V/24VDC output (10/100/1000Mbps)PE-162SIndustrial IEEE 802.3at Gigabit High Power over Ethernet SplitterPE-201IEEE 802.3at Power over Gigabit Ethernet ExtenderPE-2021-port 802.3at PoE+ to 2-port 802.3af/at Gigabit PoE ExtenderP-101C-KIT1-Port Long Reach PoE over coax Extender Kit (LRP-101CE)	VIP-1120PT	· ·
1800HD Touch Screen Android Multimedia Conferencing PhoneS-700P7-inch SIP Indoor Touch Screen PoE Video IntercomNP-1160PT720p SIP Vandalproof Door Phone with PoENP-5240PT720p SIP Multi-unit Door Phone with RFID and PoENP-5260PT720p SIP Multi-unit Apartment Vandalproof Door Phone with RFID and PoEP-5260PT720p SIP Multi-unit Apartment Vandalproof Door Phone with SV/12VDC output (10/100/1000Mbps)P-160PESIP Telephone Adapter (1 x LAN, 1 x PC, 1 x RJ11, 802.3af PoE)PE-161SIEEE 802.3at Gigabit Power over Ethernet Plus Splitter with 5V/12VDC output (10/100/1000Mbps)DE-162SIAdustrial IEEE 802.3at Gigabit Power over Ethernet Plus Splitter with 12V/24VDC output (10/100/1000Mbps)DE-162SIndustrial IEEE 802.3at Gigabit High Power over Ethernet SplitterDE-E201IEEE 802.3at Power over Ethernet ExtenderDE-E2021-port 802.3at Poet to 2-port 802.3af/at Gigabit Poe ExtenderP-101C-KIT1-Port Long Reach PoE over coax Extender Kit (LRP-101CH + LRP-101CE)	VIP-2140PT	5
P-1160PT720p SIP Vandalproof Door Phone with PoEP-5240PT720p SIP Multi-unit Door Phone with RFID and PoEP-5260PT720p SIP Multi-unit Apartment Vandalproof Door Phone with RFID and PoEP-166PESIP Telephone Adapter (1 x LAN, 1 x PC, 1 x RJ11, 802.3af PoE)PE-161SIEEE 802.3at Gigabit Power over Ethernet Plus Splitter with 5V/12VDC output (10/100/1000Mbps)PE-162SIEEE 802.3at Gigabit Power over Ethernet Plus Splitter with 12V/24VDC output (10/100/1000Mbps)PE-E101IEEE 802.3at Gigabit Power over Ethernet Plus Splitter with 12V/24VDC output (10/100/1000Mbps)PE-E201IEEE 802.3at Gigabit Power over Ethernet SplitterPE-E2021-port 802.3at Power over Gigabit Ethernet ExtenderP-101C-KIT1-Port Long Reach PoE over coax Extender Kit (LRP-101CH + LRP-101CE)	ICF-1800	
P-5240PT720p SIP Multi-unit Door Phone with RFID and PoEP-5260PT720p SIP Multi-unit Apartment Vandalproof Door Phone with RFID and PoEP-56PESIP Telephone Adapter (1 x LAN, 1 x PC, 1 x RJ11, 802.3af PoE)PE-161SIEEE 802.3at Gigabit Power over Ethernet Plus Splitter with 5V/12VDC output (10/100/1000Mbps)PE-162SIEEE 802.3at Gigabit Power over Ethernet Plus Splitter with 12V/24VDC output (10/100/1000Mbps)DE-162SIndustrial IEEE 802.3at Gigabit High Power over Ethernet SplitterDE-161SIEEE 802.3at Gigabit Power over Ethernet Plus Splitter with 12V/24VDC output (10/100/1000Mbps)DE-162SIndustrial IEEE 802.3at Gigabit High Power over Ethernet SplitterDE-E201IEEE 802.3af Power over Ethernet ExtenderDE-E2021-port 802.3at Power over Gigabit Ethernet ExtenderP-101C-KIT1-Port Long Reach PoE over coax Extender Kit (LRP-101CH + LRP-101CE)	VTS-700P	7-inch SIP Indoor Touch Screen PoE Video Intercom
P-5260PT720p SIP Multi-unit Apartment Vandalproof Door Phone with RFID and PoEP-156PESIP Telephone Adapter (1 x LAN, 1 x PC, 1 x RJ11, 802.3af PoE)PE-161SIEEE 802.3at Gigabit Power over Ethernet Plus Splitter with 5V/12VDC output (10/100/1000Mbps)PE-162SIEEE 802.3at Gigabit Power over Ethernet Plus Splitter with 12V/24VDC output (10/100/1000Mbps)DE-162SIndustrial IEEE 802.3at Gigabit High Power over Ethernet Plus SplitterDE-161SIEEE 802.3at Gigabit Power over Ethernet Plus Splitter with 12V/24VDC output (10/100/1000Mbps)DE-162SIndustrial IEEE 802.3at Gigabit High Power over Ethernet SplitterDE-E101IEEE 802.3af Power over Ethernet ExtenderDE-E201IEEE 802.3at Power over Gigabit Ethernet ExtenderDE-E2021-port 802.3at PoE+ to 2-port 802.3af/at Gigabit PoE ExtenderP-101C-KIT1-Port Long Reach PoE over coax Extender Kit (LRP-101CH + LRP-101CE)	HDP-1160PT	720p SIP Vandalproof Door Phone with PoE
P-156PESIP Telephone Adapter (1 x LAN, 1 x PC, 1 x RJ11, 802.3af PoE)PE-161SIEEE 802.3at Gigabit Power over Ethernet Plus Splitter with 5V/12VDC output (10/100/1000Mbps)PE-162SIEEE 802.3at Gigabit Power over Ethernet Plus Splitter with 12V/24VDC output (10/100/1000Mbps)DE-162SIndustrial IEEE 802.3at Gigabit High Power over Ethernet SplitterDE-161SIEEE 802.3at Power over Ethernet Plus Splitter with 12V/24VDC output (10/100/1000Mbps)DE-162SIndustrial IEEE 802.3at Gigabit High Power over Ethernet SplitterDE-E101IEEE 802.3af Power over Ethernet ExtenderDE-E201IEEE 802.3at Power over Gigabit Ethernet ExtenderDE-E2021-port 802.3at PoE+ to 2-port 802.3af/at Gigabit PoE ExtenderP-101C-KIT1-Port Long Reach PoE over coax Extender Kit (LRP-101CH + LRP-101CE)	HDP-5240PT	720p SIP Multi-unit Door Phone with RFID and PoE
IEEE 802.3at Gigabit Power over Ethernet Plus Splitter with 5V/12VDC output (10/100/1000Mbps)IEEE 802.3at Gigabit Power over Ethernet Plus Splitter with 12V/24VDC output (10/100/1000Mbps)IEEE 802.3at Gigabit Power over Ethernet Plus Splitter with 12V/24VDC output (10/100/1000Mbps)Industrial IEEE 802.3at Gigabit High Power over Ethernet SplitterIEEE 802.3at Gigabit Power over Ethernet Plus Splitter with 12V/24VDC output (10/100/1000Mbps)IEEE 802.3at Gigabit High Power over Ethernet SplitterIEEE 802.3at Power over Ethernet ExtenderIEEE 802.3at Power over Gigabit Ethernet ExtenderIEEE 802.3at Poer to 2-port 802.3af/at Gigabit PoE ExtenderI-port 802.3at PoE+ to 2-port 802.3af/at Gigabit PoE ExtenderI-Port Long Reach PoE over coax Extender Kit (LRP-101CH + LRP-101CE)	HDP-5260PT	720p SIP Multi-unit Apartment Vandalproof Door Phone with RFID and PoE
IEEE 802.3at Gigabit Power over Ethernet Plus Splitter with 12V/24VDC output (10/100/1000Mbps)         DE-162S       Industrial IEEE 802.3at Gigabit High Power over Ethernet Splitter         DE-E101       IEEE 802.3at Power over Ethernet Extender         DE-E201       IEEE 802.3at Power over Gigabit Ethernet Extender         DE-E202       1-port 802.3at PoE+ to 2-port 802.3af/at Gigabit PoE Extender         P-101C-KIT       1-Port Long Reach PoE over coax Extender Kit (LRP-101CH + LRP-101CE)	VIP-156PE	SIP Telephone Adapter (1 x LAN, 1 x PC, 1 x RJ11, 802.3af PoE)
DE-162S       Industrial IEEE 802.3at Gigabit High Power over Ethernet Splitter         DE-E101       IEEE 802.3at Power over Ethernet Extender         DE-E201       IEEE 802.3at Power over Gigabit Ethernet Extender         DE-E202       1-port 802.3at PoE+ to 2-port 802.3af/at Gigabit PoE Extender         P-101C-KIT       1-Port Long Reach PoE over coax Extender Kit (LRP-101CH + LRP-101CE)	POE-161S	IEEE 802.3at Gigabit Power over Ethernet Plus Splitter with 5V/12VDC output (10/100/1000Mbps)
IEEE 802.3af Power over Ethernet Extender         IEEE 802.3af Power over Gigabit Ethernet Extender         IEEE 802.3at Power over Gigabit Ethernet Extender         IEEE 802.3at Power over Gigabit Ethernet Extender         IEEE 802.3at PoeE to 2-port 802.3af/at Gigabit PoE Extender         P-101C-KIT       1-Port Long Reach PoE over coax Extender Kit (LRP-101CH + LRP-101CE)	POE-162S	IEEE 802.3at Gigabit Power over Ethernet Plus Splitter with 12V/24VDC output (10/100/1000Mbps)
WE-E201       IEEE 802.3at Power over Gigabit Ethernet Extender         WE-E202       1-port 802.3at PoE+ to 2-port 802.3af/at Gigabit PoE Extender         P-101C-KIT       1-Port Long Reach PoE over coax Extender Kit (LRP-101CH + LRP-101CE)	IPOE-162S	Industrial IEEE 802.3at Gigabit High Power over Ethernet Splitter
PE-E202       1-port 802.3at PoE+ to 2-port 802.3af/at Gigabit PoE Extender         P-101C-KIT       1-Port Long Reach PoE over coax Extender Kit (LRP-101CH + LRP-101CE)	POE-E101	IEEE 802.3af Power over Ethernet Extender
P-101C-KIT 1-Port Long Reach PoE over coax Extender Kit (LRP-101CH + LRP-101CE)	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
P-101U-KIT 1-Port Long Reach PoE over UTP Extender Kit (LRP-101UH + LRP-101UE)	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 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	YES	1000	WDM(LC)	Single Mode	20km	1310nm	1550nm	0 ~ 60 degrees C
MGB-LB20	TES	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	TES	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	TES	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	160	1000	WDM(LC)	Single Mode	40km	1550nm	1310nm	-40 ~ 75 degrees C
MGB-TLA80	VEO	1000	WDM(LC)	Single Mode	80km	1490nm	1550nm	-40 ~ 75 degrees C
MGB-TLB80	YES	1000	WDM(LC)	Single Mode	80km	1550nm	1490nm	-40 ~ 75 degrees C

### PLANET Technology Corporation

 11F., No.96, Minquan Rd., Xindian Dist., New Taipei City

 231, Taiwan (R.O.C.)

 Tel: 886-2-2219-9518

 Fax: 886-2-2219-9518

 Fmail: sales@planet.com.tw

 www.planet.com.tw

FCC C E

### **GSD-2022P**

PLANET reserves the right to change specifications without prior notice. All brand names and trademarks are property of their respective owners. Copyright © 2020 PLANET Technology Corp. All rights reserved.