

8-Port 10/100/1000T 802.3at PoE + 2-Port 2.5G 802.3at PoE + 1-Port 10G SFP+ Ethernet Switch



Value-added 2.5Gbps PoE Switch for a Quick Solution

PLANET GSD-1121XP ideal value-added multigigabit switch providing data rates of 1Gbps and 2.5Gbps and PoE over UTP cables is designed for the demand of high-bandwidth required network equipment, such as 802.11ax and 802.11ac Wave 2 wireless AP. Offering a perfect hardware configuration with 8 10/100/1000BASE-T ports and 2 100/1000/2500BASE-T ports featuring 30-watt 802.3at PoE+, and 1 extra 10GBASE-X SFP+ fiber port, the GSD-1121XP breaks the bandwidth limitation of connecting the wireless network with the wired network.

With a total of 120-watt PoE budget, and 2.5Gbps and 10Gbps uplink data switching performance, the GSD-1121XP can fulfill the demand of sufficient PoE power and accelerates the deployment of wireless network infrastructure for enterprises and smart cities.



2.5Gbps Capability for Diversified Bandwidth Applications

With the terminal access rates of 802.11ax Wi-Fi 6 and 802.11ac wireless APs reaching as high as 1.2Gbps to 2.6Gbps, Gigabit ports have been unable to satisfy the demand. Supporting 100/1G/2.5Gbps capability and 802.3af/at PoE output, the GSD-1121XP can deliver not only data to 802.11ac wireless APs, but also power to other powered devices such as APs and IP cameras.

Physical Port

- Eight 10/100/1000BASE-T Gigabit RJ45 copper ports
- Two 100/1G/2.5GBASE-T RJ45 ports
- One 10GBASE-X SFP+ port

Power over Ethernet

- Complies with IEEE 802.3af/at Power over Ethernet end-span PSE
- Up to 10 ports of IEEE 802.3af/802.3at devices powered
- Supports PoE power up to 30 watts for each PoE port
- Each port supports 52V DC power to PoE powered device
- 120-watt PoE budget
- Auto detects powered device (PD)
- Circuit protection prevents power interference between ports
- Remote power feeding up to 100m

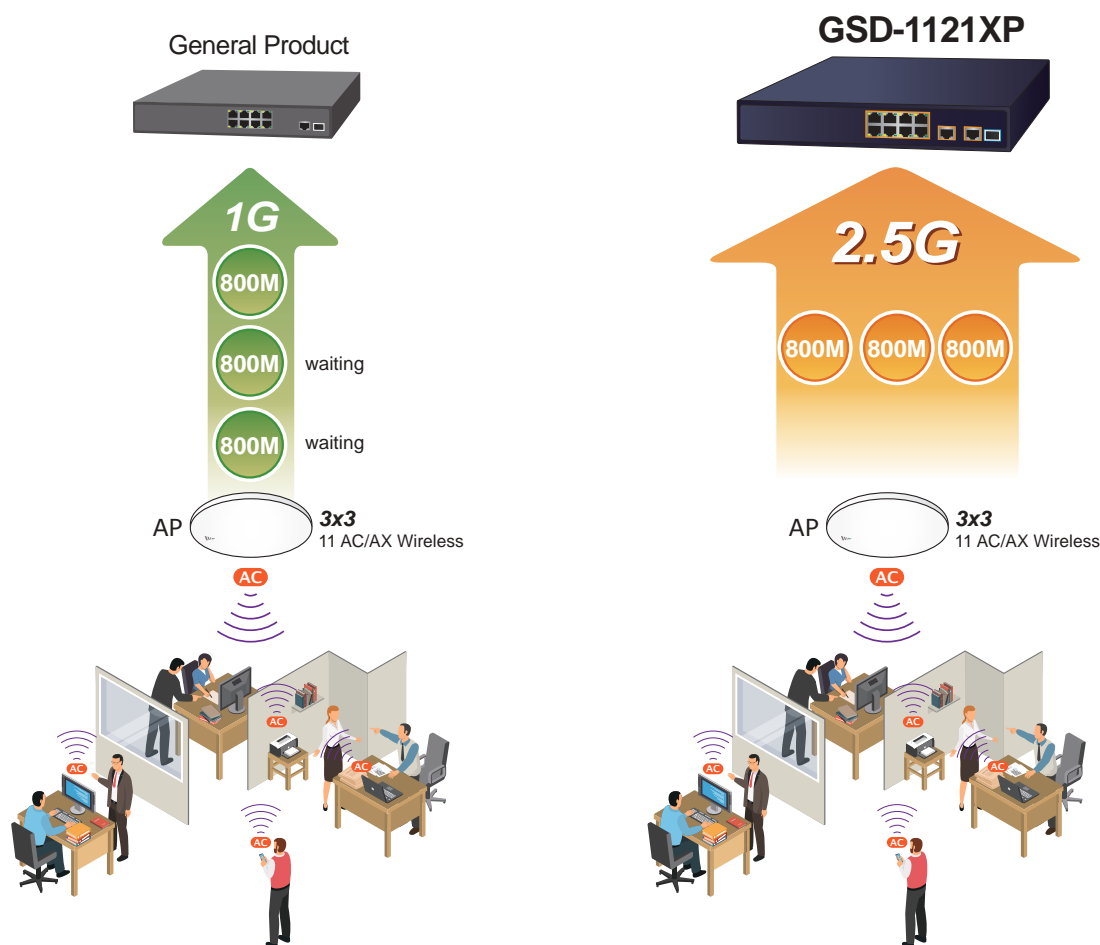
Switching

- Hardware-based 10/100/1000/2500Mbps auto-negotiation and auto MDI/MDI-X
- Flow control for full duplex operation and back pressure for half duplex operation
- 9600bytes packet size
- Integrates address look-up engine, supporting 16K absolute MAC addresses
- Automatic address learning and address aging
- Supports Energy-Efficient Ethernet (EEE) function (IEEE 802.3az)

Hardware

- 11-inch desktop size, 1U height, rack mountable
- 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 $\pm 6\text{KV}$ DC and air discharge of $\pm 8\text{KV}$ DC for Ethernet ESD protection
- Supports $\pm 6\text{KV}$ surge immunity

New Generation of Multigigabit Switch



Flexible Extension Solution

The one 10Gbps SFP+ port built in the GSD-1121XP supports high speed as it features 10GBASE-SX/LX SFP+ (small form-factor pluggable) fiber-optic modules. Now the administrator can flexibly choose the suitable SFP+ transceiver according to not only the transmission distance, but also the transmission speed required. The distance can be extended from 300 meters to 2km (multi-mode fiber) and up to 10/20/40/60/80 kilometers (single-mode fiber). They are well suited for applications within the enterprise data centers and distributions.

Robust Protection

PLANET GSD-1121XP provides contact discharge of $\pm 6\text{KV}$ DC and air discharge of $\pm 6\text{KV}$ DC for Ethernet ESD protection. It also supports $\pm 6\text{KV}$ surge immunity to improve product stability and protects users' networks from devastating ESD attacks, making sure the flow of operation does not fluctuate.

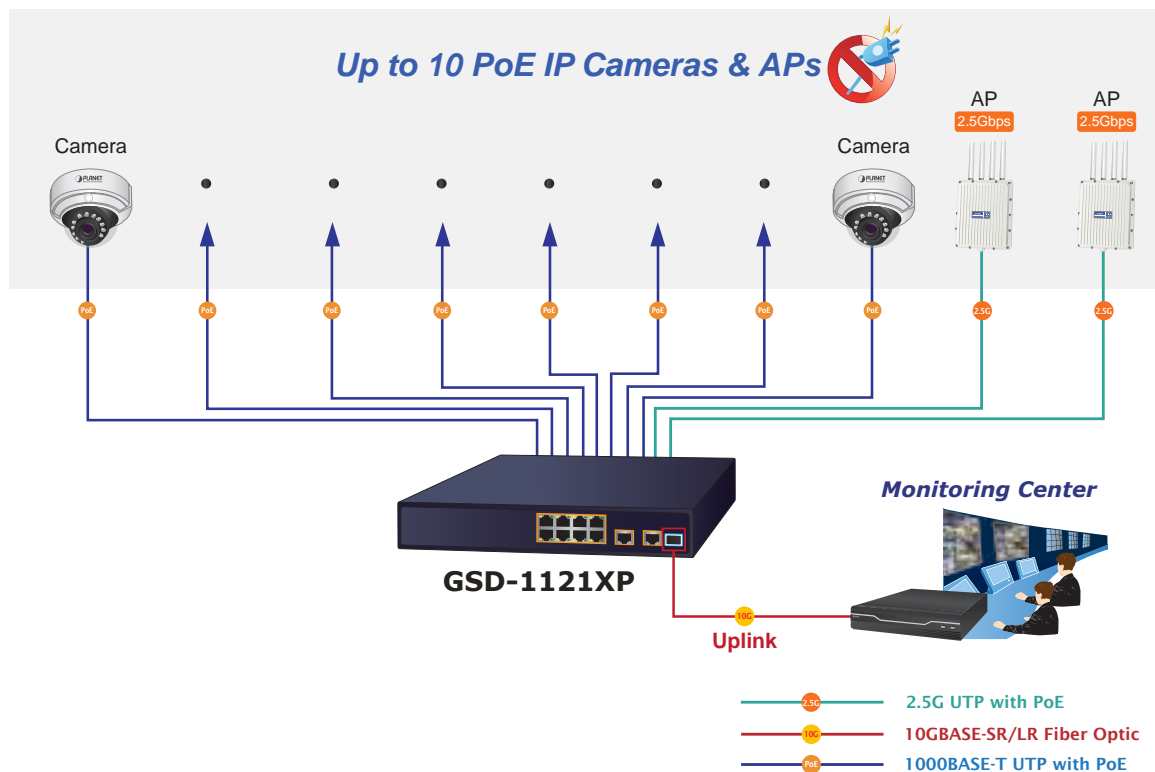
Easy Installation and Cable Connection

As data and power are transmitted over one cable, the GSD-1121XP does not need a second cable and electrical outlets on the wall, ceiling or any unreachable place. Thus, it helps to lower the installation costs and simplify the installation effort. All the RJ45 copper interfaces of the GSD-1121XP support 10/100/1000/2500Mbps auto-negotiation for optimal speed detection through RJ45 Category 6, 5 or 5e cable. It also supports standard auto-MDI/MDI-X that can detect the type of connection to any Ethernet device without requiring special straight-through or crossover cables.

Applications

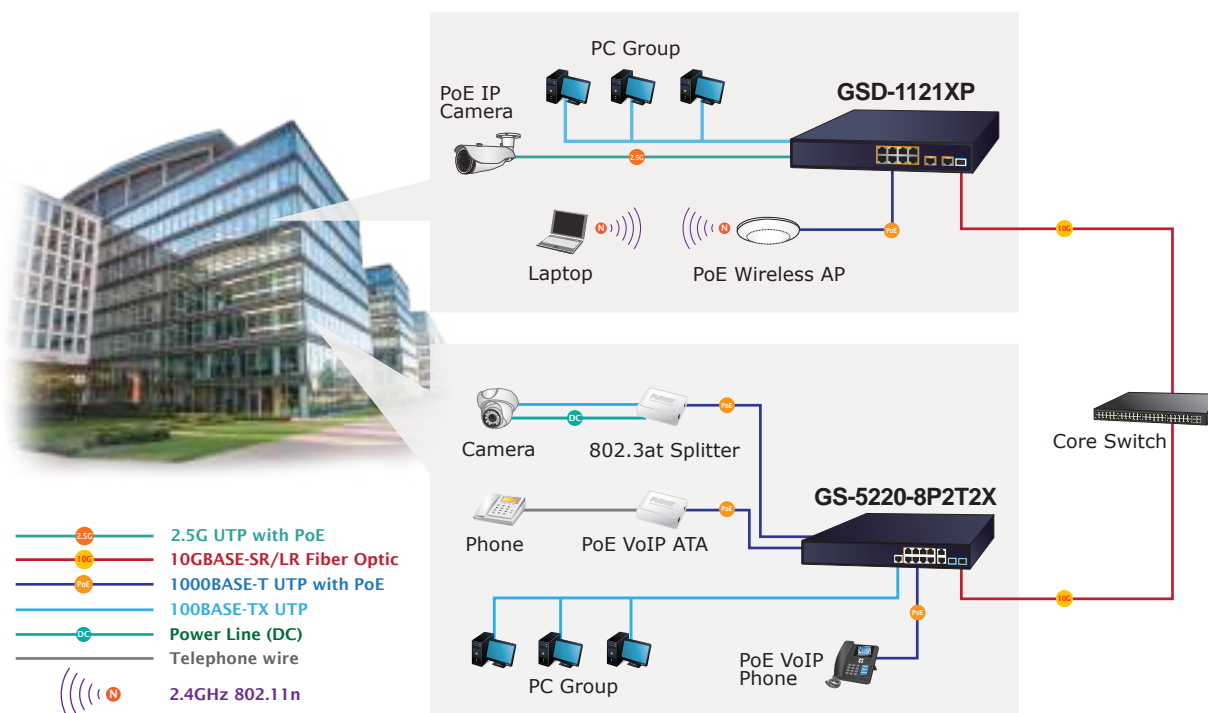
Perfectly-integrated Solution for PoE IP Camera and NVR System

With its 46Gbps high-performance switch architecture and 120-watt PoE power budget, the recorded video files from the 10 PoE IP cameras and wireless Access Points powered by the GSD-1121XP are saved in the multi-channel NVR systems or surveillance software in the monitoring center for possible backup references.



Ideal PoE Switch for All Enterprises

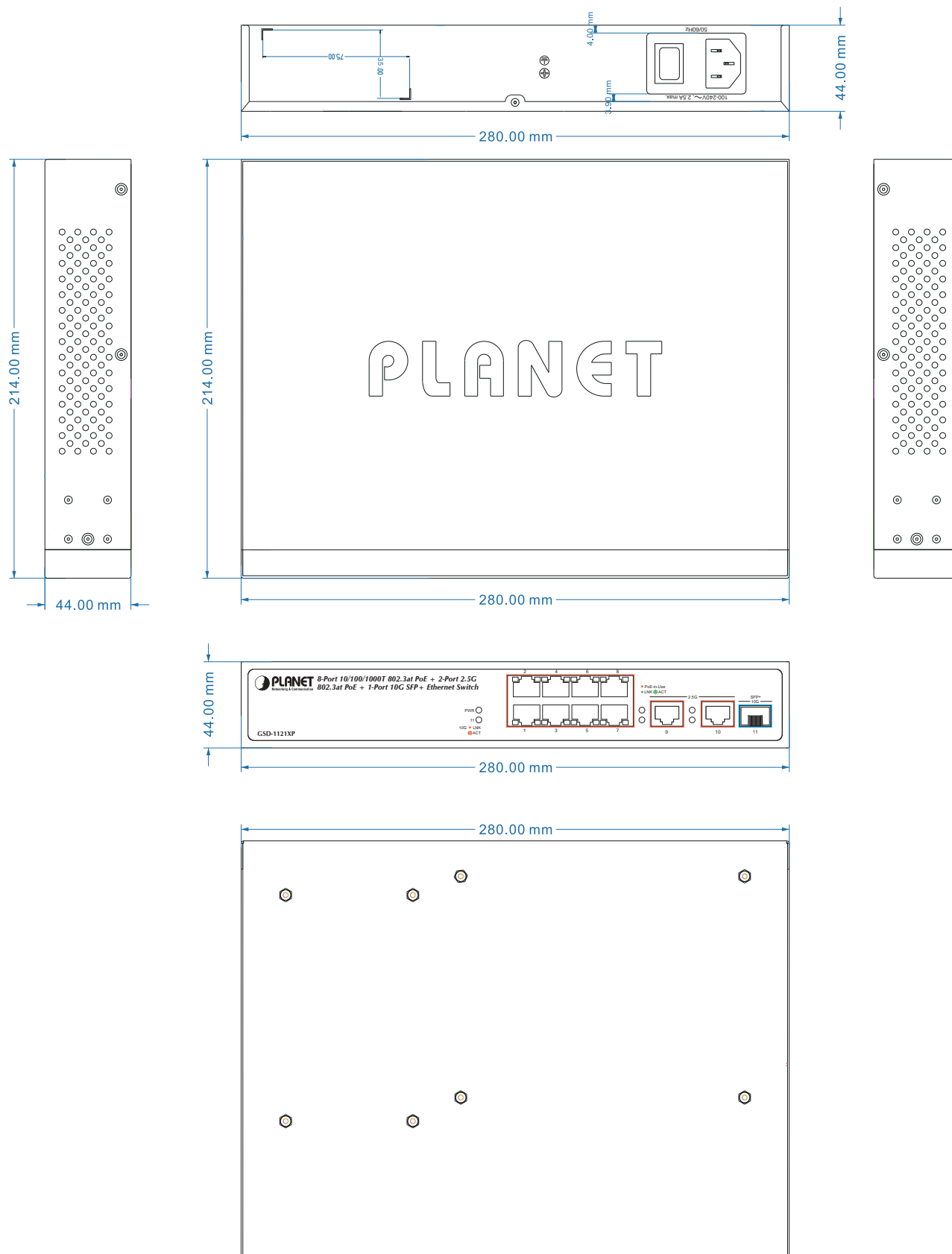
Providing ten 802.3at PoE+ in-line power interfaces, the GSD-1121XP can easily build a power that centrally controls IP phone system, IP camera system and wireless AP group for enterprises. Cameras can be installed around the corner in the company or campus for surveillance demands. Without the need for power sockets, the GSD-1121XP makes the installation of cameras easier and more efficient.



Specifications

Model	GSD-1121XP
Hardware Specifications	
Copper Ports	8 x 10/100/1000BASE-T RJ45 <ul style="list-style-type: none"> ■ With 802.3at/af PoE+ injector function ■ Auto-MDI/MDI-X, auto-negotiation 2 x 100/1000/2500BASE-T RJ45 <ul style="list-style-type: none"> ■ With 802.3at/af PoE+ injector function ■ Auto-MDI/MDI-X, auto-negotiation
SFP+ Port	1 x 10GBASE-X SFP+ interface
Dimensions (W x D x H)	280 x 213 x 45mm
Weight	1711g
Power Requirements	100~240V AC, 50/60Hz
Installation	Desktop or rack-mount installation
Power Consumption / Dissipation	124 watts @ AC 110V 125 watts @ AC 240V
ESD Protection	6KV contact/8KV air
EFT Protection	1KV
LED Indicators	1 x LED for Power: <ul style="list-style-type: none"> ■ Green: AC Power 2 x LED for Per Copper Port (Port-1~Port-8): <ul style="list-style-type: none"> ■ Green: 10/100/1000 LNK/ACT ■ Amber: PoE-in-Use 2 x LED for Per Copper Port (Port-9~Port-10): <ul style="list-style-type: none"> ■ Green: 100/1000/2500 LNK/ACT ■ Amber: PoE-in-Use 1 x LED for SFP+ interface (Port-11) <ul style="list-style-type: none"> ■ Amber: 10G LNK/ACT
Switching Specification	
Switch Processing Scheme	Store-and-Forward
Switch fabric	46Gbps
Throughput (packet per second)	34.2Mpps @64 bytes
Address Table	16K entries
Jumbo Frame	9600 Bytes
Flow Control	Back pressure for half duplex IEEE 802.3x pause frame for full duplex
Power over Ethernet	
PoE Standard	IEEE 802.3af/at PoE Plus, PSE
PoE Power Supply Type	End-span
PoE Power Output	Per port 52V DC, max. 30 watts
Power Pin Assignment	1/2 (+), 3/6 (-)
PoE Power Budget	120 watts
Standards Conformance	
Standards Compliance	IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3ab Gigabit Ethernet IEEE 802.3ae 10Gb/s Ethernet IEEE 802.3af Power over Ethernet IEEE 802.3at Power over Ethernet Plus IEEE 802.3x Full-Duplex Flow Control IEEE 802.3az EEE (Energy Efficient Ethernet) IEEE 802.3bz 2.5GBASE-T
Regulatory Compliance	FCC Part 15 Class B, CE
Environments	
Operating	Temperature: 0 ~ 50 degrees C Relative Humidity: 5 ~ 95% (non-condensing)
Storage	Temperature: -10 ~ 70 degrees C Relative Humidity: 5 ~ 95% (non-condensing)

Dimensions



Unit: mm

Ordering Information

GSD-1121XP	8-Port 10/100/1000T 802.3at PoE + 2-Port 2.5G 802.3at PoE + 1-Port 10G SFP+ Ethernet Switch (120 Watts)
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Related PoE Products

GSD-1008HP	8-Port 10/100/1000T 802.3at PoE + 2-Port 10/100/1000T Desktop Switch (120 watts)
GSD-1222VHP	8-Port 10/100/1000T 802.3at PoE + 2-Port 10/100/1000T + 2-Port 1000X SFP Ethernet Switch with PoE LCD Monitor
FGSD-1022VHP	8-Port 10/100TX 802.3at PoE + 2-Port Gigabit TP/SFP combo Desktop Switch with LCD PoE Monitor (120W)
MGS-5220-8P2X	L2+ 8-Port 2.5G 802.3at PoE + 2-Port 1G/10G SFP+ Managed Multigigabit Switch
GS-5220-8P2T2X	L3 8-Port 10/100/1000T 802.3at PoE + 2-Port 10/100/1000T + 2-Port 10G SFP+ Managed Switch

Available 10Gbps Modules

CB-DASFP-0.5M	10G SFP+ Directly-attached Copper Cable (0.5m in length)
CB-DASFP-2M	10G SFP+ Directly-attached Copper Cable (2m in length)
MTB-SR	10GBASE-SR mini-GBIC module - 300m
MTB-LR	10GBASE-LR mini-GBIC module - 10km
MTB-LA20	10GBASE-LX (WDM,TX:1270nm) mini-GBIC module - 20km
MTB-LB20	10GBASE-LX (WDM,TX:1330nm) mini-GBIC module - 20km
MTB-LA40	10GBASE-LX (WDM,TX:1270nm) mini-GBIC module - 40km
MTB-LB40	10GBASE-LX (WDM,TX:1330nm) mini-GBIC module - 40km
MTB-LA60	10GBASE-LX (WDM,TX:1270nm) mini-GBIC module - 60km
MTB-LB60	10GBASE-LX (WDM,TX:1330nm) mini-GBIC module - 60km

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