

Industrial 1-Port 100/1000X SFP to 1-Port 10/100/1000T 802.3bt PoE++ Media Converter



PLANET IGUP-805AT Industrial Gigabit Media Converter combines Ethernet media conversion (from 1000BASE-X to 10/100/1000BASE-T) with 802.3bt Power over Ethernet Plus Plus (PoE++) injector function to deliver up to 95 watts of power output and high data transmission speed to PDs (powered devices) installed in a remote area where sufficient and reliable power input is required. Its 1000BASE-X fiber optic uplink port provides long distance, high speed and stable data transmission to a remote core network. The special and convenient power system of the IGUP-805AT supports dual 12~56V DC power inputs for power redundancy and operational flexibility.

Being able to operate under the temperature ranging from **-40 to 75 degrees C** and with an **IP30** rugged case, the IGUP-805AT can be placed in almost any difficult environment.



Fiber-optic Link Capability Extends the Range of Network Deployment

The maximum distance between a PoE PSE (power sourcing equipment) and PD via Ethernet cable is 100 meters. To extend the PoE deployment range, the IGUP-805AT is integrated with fiber interface for farther distance applications. The IGUP-805AT's fiber connector type is as follows:

■ One SFP slot supporting 100BASE-FX/1000BASE-X multi/single mode SFP module and transmission distance up to 120km (Varying on SFP module)

With the long fiber distance support, the IGUP-805AT still sustains the transmission performance as high as 1000Mbps. It works in the high-performance Store and

Physical Port

- 1-port 10/100/1000BASE-T RJ45 with IEEE 802.3bt PoE Injector function
- 1 SFP slot, supporting 1000BASE-X and 100BASE-FX transceiver dual mode

Power over Ethernet

- · Complies with IEEE 802.3bt PoE++ Type-4 PSE
- Backward compatible with IEEE 802.3af/at PoE+ standard
- 1 IEEE 802.3af/at/bt device powered
- · Supports PoE Power up to 95 watts for PoE port
- Provides DC 55V power over RJ45 Ethernet cable to PD with Ethernet port
- Auto-detects IEEE 802.3bt equipment and protects devices from being damaged by incorrect installation
- · Remote power feeding up to 100m
- IEEE 802.3af/at/bt splitter devices compatible

Layer 2 Features

- Supports auto-negotiation and 10/100Mbps half / full duplex and 1000Mbps full duplex mode on RJ45 port
- Prevents packet loss with back pressure (half-duplex) and IEEE 802.3x pause frame flow control (full-duplex)

Hardware

- · LED Indicators
 - System: Power 1, Power 2, Fault and PoE usage
 - Fiber port: LNK/ACT
 - 10/100/1000BASE-T port: LNK/ACT, PoE-in-use
- DIP switch 1: LFPP (Link Fault Passthrough PoE Control)
 On/Off
- DIP switch 2: Standard (BT)/Legacy (POH) mode selection

Industrial Case and Installation

- IP30 metal case
- DIN-rail and wall-mount designs
- 12 ~ 56V DC redundant power with reverse polarity protection and connective removable terminal block for master and slave power
- · Supports 6000 VDC Ethernet ESD protection
- -40 to 75 degrees C operating temperature



Forward mechanism, and also can prevent packet loss with IEEE 802.3x flow control. Furthermore, it can immediately alarm the administrators the issue from the link media and provide efficient solution to monitor the network power usage.

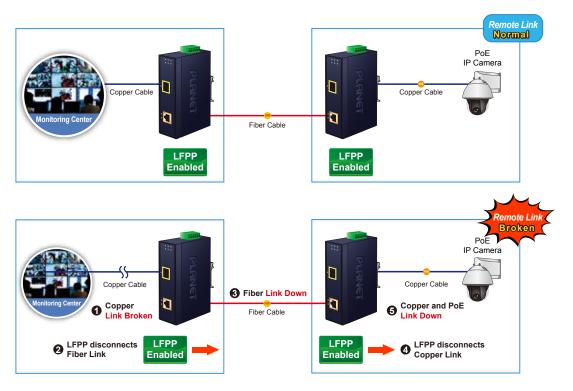
Plug and Play High Power Sourcing Solution

Complying with the IEEE 802.3bt Power over Ethernet Plus Plus technology, the IGUP-805AT provides up to 95 watts of PoE output power, tripling that of the earlier 802.3at plus. Through, the Legacy function in the DIP switch design, it is also backward compatible with 802.3af/at PoE standards to allow users to flexibly deploy standard and high powered devices simultaneously with no need of software configuration. With data and Power over Ethernet from one unit, the IGUP-805AT can reduce cable deployment and eliminate the need for dedicated electrical outlets on the wall, ceiling or any unreachable place.



Interactive Network Detection

The IGUP-805AT can support **LFPP** (Link Fault Passthrough PoE Control) function via its built-in DIP switch. It disables PoE port once it detects the fiber optic link is down. It can immediately alarm the administrators the issue from the link media and provide efficient solution to monitor the remote network.





Convenient and Reliable Power System

To facilitate the 802.3bt power PoE++ usage with the commonly-used **12-48V DC** power input for transportation and industrial-level applications, the IGUP-805AT adopts the **12-48V DC** to **56V** power boost technology to solve power source issue but does not require special power supplies. Its wide-ranging voltages design is suitable for worldwide operability with high availability applications requiring dual or backup power inputs.

Environmentally Hardened Design for Industrial PoE Networks

The IGUP-805AT is specifically designed with durable components and strong housing case to operate reliably in electrically harsh and climatically demanding environments like plant floors or curbside traffic control cabinets. The IGUP-805AT is packaged in a compact, IP30 rugged case that allows either DIN-rail or wall mounting to have the efficient use of cabinet space. With IP30 rugged case protection and PoE design, the IGUP-805AT is ideal for service providers, campuses and public areas to deploy PoE wireless access points, IP cameras or IP phones in any places easily and efficiently with cost-effectiveness. It can also operate in wide temperature range of -40 to 75 degrees C, so it can be placed in almost any location.







DIN-rail Mounting

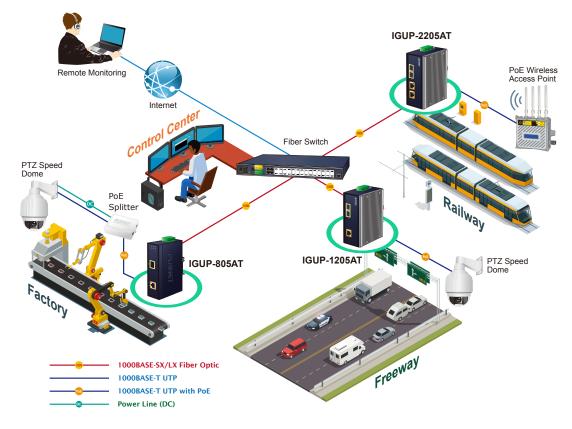
Wall Mounting

Side Wall Mounting (Space saving)

Applications

Flexible and User-friendly PoE Deployment with Gigabit SFP Fiber Extension

For the places difficult to find the power outlet, the IGUP-805AT provides the easiest way to power network equipment such as PTZ (Pan, Tilt & Zoom) IP cameras, speed dome IP cameras, color touch-screen VoIP telephones, multi-channel (IEEE 802.11a/b/g/n/ac) wireless LAN access points and other network devices that need higher power to function normally. For instance, users can flexibly install security IP camera, wireless access point and other IEEE 802.3af / at/bt compliant network equipment in the public areas such as stations, freeways, airports and campuses for surveillance and wireless roaming needs.



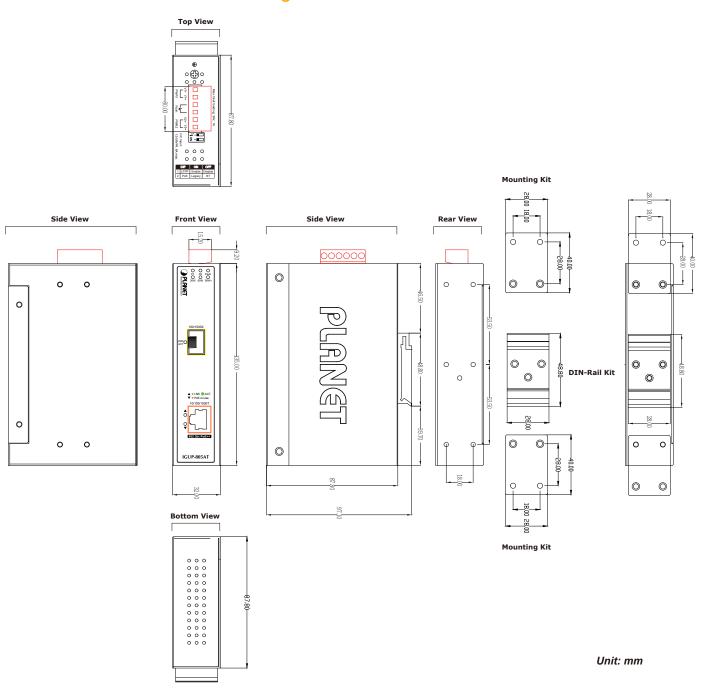


Specifications

Legacy mode supports PoH and Ultra PoE. Standards Conformance Regulatory Compliance FCC Part 15 Class A, CE IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3s Gigabit Ethernet IEEE 802.3s Gigabit Ethernet over Fiber Optic IEEE 802.3s Flow Control IEEE 802.3s Flow Control IEEE 802.3at Power over Ethernet IEEE 802.3at Power over Ethernet Plus IEEE 802.3at Power over Ethernet Plus IEEE 802.3az Energy Efficient Ethernet (EEE) Stability Testing IEC60068-2-32 (free fall) IEC60068-2-27 (shock) IEC60068-2-6 (vibration) Standards Compliance Temperature Operating: -40~75 degrees C Storage: -40~85 degrees C		
Copper Port	Model	IGUP-805AT
SPF Silot One 1000BASE_SCAULXEXX SPF interface Compasition with 100BASE_SCAULXEXX SPF interface EEE 802 2.5 spruse frame for full duplex mode Maximum Frame Size 9K Maximum Frame Size 9K System Prover 1 (Green), Power 2 (Green), Fault Alarm (Red) Power 1 (Green), Power 2 (Green), Fault Alarm (Red) Power 1 (Green), Power 2 (Green), Fault Alarm (Red) Power 1 (Green) Prover (Green) Power Requirements 12.56V DC. supports reversus polarity protection System ON without loading 12/DC2_44W Power Requirements 12.56V DC. supports reversus polarity protection System ON without loading 12/DC2_44W Power (Green) Prover	Hardware Specifications	
Compatible with 106ASE_FX SFP	Copper Port	One 10/100/1000BASE-T port
	SFP Slot	
System: Power (Green), Power 2 (Green), Fault Alarm (Red) Pote Lisage: IGUP-806AT: 30/W60/W50W4 (Amber) Pote Lisage: IGUP-806AT: 30/W60/W50W4 (Amber) Pote Power (Amber) Pote Power Output Pote Power Output Pote Power Output Power	Flow Control	
Fower 1 (Green), Power 2 (Green), Fault Alarm (Red) PoEL Lage):	Maximum Frame Size	9K
Weight 484 g Power Requirements 12-56V DC, supports reverse polarity protection 12-56V DC, supports reverse polarity protection 12-56V DC, supports reverse polarity protection 12-50V DC, supports reverse polarity 12-50V DC, supports reverse polarity protection 12-50V DC, supports reverse polarity 12-50V DC, supports reverse pol	LED Indicators	Power 1 (Green), Power 2 (Green), Fault Alarm (Red) PoE Usage: IGUP-805AT: 30W/60W/90W+ (Amber) Fiber: 100/1000BASE-X: LINK/ACT (Green) TP: 10/100/1000BASE-T: LNK/ACT (Green)
Power Consumption System ON without loading 12V DC: 44-9W 46V DC: 3-80W FUND TO SHOW FUND THE SHORT SHOPE 48V DC: 3-80W FUND THE SHOPE 50 FOR	Dimensions (W x D x H)	32 x 87 x 135 mm
Power Consumption System ON without loading 48V DC: 3.89W Fill loading with POE 12V DC: 32W 48V DC: 38W DIP Switch 1 LEPP On/Off Lepacy mode On (POH)/Legacy mode Off (BT) Enclosure IP30 metal case Installation DIN-rail kit and wall-mount ear ESD Protection RESD Protection OKY DC Cables 10/100/1000BASE-T: 2-pair VIP Cat. 3, 4, 5, 5e. 6 (maximum 100 meters) EIA/TIA-888 100-chn STP (maximum 100 meters) FIRM TIA TIA-888 100-chn STP (maximum 100 meters) FIRM TIA-EAR STORM TIA	Weight	484 g
Power Consumption System DN without loading 27 DC 4.4-8/W 45V DC 3.36W	Power Requirements	12-56V DC, supports reverse polarity protection
DIP Switch 2 Enclosure Enclosure IP30 metal case IP30 metal case IP30 metal case ESD Protection EXD Protectio		12V DC: 4.44W 48V DC: 3.36W Full loading with PoE 12V DC: 82W
Enclosure IP30 metal case Installation DIN-rall kit and wall-mount ear ESD Protection 6KV DC Cables 10/100/100BASE-T: 2-pair UTP Cat. 3, 4, 5, 5e, 6 (maximum 100 meters) 10/100/100BASE-T/100BASE-SVI.X: Multi-mode 50/125µm of 22, 5/125µm optical fiber Single-mode: 9/125µm optical fiber Power Over Ethernet PoE Standard IEEE 802.3bt Power over Ethernet Plus Plus Standard (BT) mode: 90W Legacy (POH) mode: 95W PoE Power Supply Type End-span: 1/2 (-), 3/6 (+) Pair 1 End-span: 1/2 (-), 3/6 (+) Pair 2 Mid-span: 4/5 (+), 7/8 (-) PoE Power Budget 9s watts@12V DC input 60 watts@12V DC input 60 watts@12V DC input 60 watts@12V DC input 61 Standard: To provide power to the PD devices that follow the IEEE 802.3at/bt standard. Legacy: To provide power to the PD devices that do not fully follow the IEEE 802.3af/at/bt standard. Legacy: To provide power to the PD devices that do not fully follow the IEEE 802.3af/at/bt standard. Legacy: To provide power to the PD devices that do not fully follow the IEEE 802.3af/at/bt standard. Legacy: To provide power to the PD devices that do not fully follow the IEEE 802.3af/at/bt standard. Legacy mode supports PoH and Ultra PoE. Standards Conformance Regulatory Compliance FCC Part 15 Class A, CE IEEE 802.3a Standards Legacy and Standards Legacy mode supports PoH and Ultra PoE. Protocols and Standards Compliance FCC Part 15 Class A, CE IEEE 802.3a Fast Ethernet IEEE 802.3a Cigabit Ethernet IEEE 802.3a Fast Power over Ethernet Plus IEEE 802.3a Fast Power over Ethernet Plus IEEE 802.3a Fower over Ethernet Plus IEEE 802.3a Fower over Ethernet (EEE) Standards Compliance Temperature Operators: -40-75 degrees C Storage: -40-85 degrees C	DIP Switch 1	LFPP On/Off
Installation DIN-rail kit and wall-mount ear ESD Protection 6KV DC 10/10/1000BASE-T: 2-pair UTP Cat. 3, 4, 5, 5e, 6 (maximum 100 meters) EIA/TIA-568 100-ohm STP (maximum 100 meters) 100BASE-FX/1000BASE-SVIX: Multi-mode: 50/125pm or 62.5/125pm optical fiber Single-mode: 9/125pm optical fiber Power Over Ethernet Poe Standard IEEE 802.3bt Power over Ethernet Plus Plus Standard (8T) mode: 90W Legacy (POH) mode: 95W Poe Power Output Standard (8T) mode: 90W Legacy (POH) mode: 95W Poe Power Supply Type End-span: +1/di-span: 45 (+), 7/8 (-) Pair 2 Mid-span: 45 (+), 7/8 (-) Pair 2 Mid-span: 45 (+), 7/8 (-) Poe Power Budget 95 wats@24-56V DC input 60 wats@12V DC input 80 wats@12V DC input 80 wats@12V DC input 80 standard: To provide power to the PD devices that foliow the IEEE 802.3at/bit standard. Legacy: To provide power to the PD devices that do not fully foliow the IEEE 802.3af/at/bit standard. Besides, Legacy mode supports POH and Ultra PoE. Standards Conformance Regulatory Compliance FC CP art 15 Class A, CE IEEE 802.3 Ethernet IEEE 802.3 Ethernet IEEE 802.3 as Flow Control IEEE 802.3 as Flow Control IEEE 802.3 as Flower over Ethernet Plus IEEE 802.3 as Flower over Ethernet Plus IEEE 802.3 ap Power over Ethernet Plus IEEE 802.3 as Power over Ethernet Plus IEEE 802.3 as Flower over Ethernet Plus IEEE 802.3 as Energy Efficient Ethernet (EEE) Standards Compliance Temperature Operating: 40-75 degrees C Storage: -40-85 degrees C	DIP Switch 2	Legacy mode On (POH)/Legacy mode Off (BT)
BED Protection	Enclosure	IP30 metal case
Tables 10/100/1000BASE-T: 2-pair UTP Cat. 3, 4, 5, 5e, 6 (maximum 100 meters) EIA/TTA-568 100-0hm STP (maximum 100 meters) 100BASE-FX/1000BASE-SX/LX: Multi-mode: 50/125µm optical fiber Single-mode: 9/125µm optical fiber POE Standard 1EEE 802.3bt Power over Ethernet Plus Plus PoE Power Output Standard (BT) mode: 90W Legacy (POH) mode: 95W PoE Power Supply Type End-span + Mid-span Power Pin Assignment Pair 1 End-span: 1/2 (-), 3/6 (+) Pair 2 Mid-span: 4/5 (+), 7/8 (-) PoE Power Budget PoE Power Budget Standard: To provide power to the PD devices that follow the IEEE 802.3at/bt standard. Legacy: To provide power to the PD devices that do not fully follow the IEEE 802.3af/at/bt standard. Besides, Legacy: To provide power to the PD devices that do not fully follow the IEEE 802.3af/at/bt standard. Besides, Legacy: To provide power to the PD devices that do not fully follow the IEEE 802.3af/at/bt standard. Besides, Legacy: To provide power to the PD devices that do not fully follow the IEEE 802.3af/at/bt standard. Besides, Legacy: To provide power to the PD devices that do not fully follow the IEEE 802.3af/at/bt standard. Besides, Legacy: To provide power to the PD devices that do not fully follow the IEEE 802.3af/at/bt standard. Besides, Legacy: To provide power to the PD devices that do not fully follow the IEEE 802.3af/at/bt standard. Besides, Legacy: To provide power to the PD devices that do not fully follow the IEEE 802.3af/at/bt standard. Besides, Legacy: To provide power to the PD devices that do not fully follow the IEEE 802.3af/at/bt standard. Besides, Legacy: To provide power to the PD devices that do not fully follow the IEEE 802.3af/at/bt standard. Besides, Legacy: To provide power to the PD devices that do not fully follow the IEEE 802.3af/at/bt standard. Besides, Legacy: Device Standards	Installation	DIN-rail kit and wall-mount ear
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Stability Testing IEC60068-2-27 (shock) IEC60068-2-6 (vibration) Standards Compliance Temperature Operating: -40~75 degrees C Storage: -40~85 degrees C		IEEE 802.3at Power over Ethernet Plus IEEE 802.3bt Power over Ethernet Plus Plus IEEE 802.3az Energy Efficient Ethernet (EEE)
Temperature Operating: -40~75 degrees C Storage: -40~85 degrees C	, ,	IEC60068-2-27 (shock)
Storage: -40~85 degrees C	Standards Compliance	
(Increting E. DOW Incre condensing)	Temperature	Storage: -40~85 degrees C
Humidity Operating: 5~90% (non-condensing) Storage: 5~90% (non-condensing)	Humidity	Operating: 5~90% (non-condensing) Storage: 5~90% (non-condensing)



IGUP-805AT Multi View Drawing



Ordering Information

IGUP-805AT

Industrial 1-Port 100/1000X SFP to 1-Port 10/100/1000T 802.3bt PoE++ Media Converter



Related Products

IGUP-1205AT	Industrial 2-Port 100/1000X SFP to 1-Port 10/100/1000T 802.3bt PoE++ Media Converter
IGUP-2205AT	Industrial 2-Port 100/1000X SFP to 2-Port 10/100/1000T 802.3bt PoE++ Media Converter
IGTP-815AT	Industrial Compact 100/1000BASE-X to 10/100/1000BASE-T 802.at PoE+ Media Converter
IGTP-805AT	100/1000BASE-X to 10/100/1000BASE-T 802.3at PoE+ Industrial Media Converter (mini-GBIC, SFP)
IGTP-802T	1000BASE-SX to 10/100/1000BASE-T 802.3at PoE+ Industrial Media Converter (SC,MM) 550m
IGTP-802TS	1000BASE-LX to 10/100/1000BASE-T 802.3at PoE+ Industrial Media Converter (SC,SM) 10km
GTP-805A	100/1000BASE-X to 10/100/1000BASE-T 802.3at PoE Media Converter (mini-GBIC, SFP)
MGB-Series Transceiver	1000BASE-SX/LX SFP Transceiver
MFB Series Transceiver	100BASE-FX SFP Transceiver
ICA-E6260	2 Mega-pixel PoE Plus Speed Dome IP Camera with Extended Support
ICA-E6265	2 Mega-pixel IR PoE Plus Speed Dome IP Camera with Extended Support
ICA-HM620	2 Mega-pixel PoE Plus Speed Dome Internet Camera
IPOE-171-60W	Industrial Single-Port 10/100/1000Mbps 802.3bt PoE++ Injector
IPOE-E172	Industrial 1-Port Ultra PoE to 2-Port 802.3bt/at Gigabit PoE Extender
WDAP-1750AC	1750Mbps 802.11ac Dual Band Wall-mount Enterprise Wireless Access Point
WDAP-802AC	1200Mbps Dual Band 802.11ac Outdoor Wireless AP
WAP-552N	5GHz 802.11a/n 300Mbps Outdoor Wireless AP
WAP-252N	2.4GHz 802.11n 300Mbps Outdoor Wireless AP
ICF-1800	HD Touch Screen Android Multimedia Conferencing Phone

SFP Modules are available for the IGUP-805AT

Gigabit Ethernet Transceiver (1000BASE-X SFP)

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

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

Model	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (TX)	Wavelength (RX)	Operating Temp.			
MGB-LA10	1000	WDM (LC)	Single Mode	10km	1310nm	1550nm	0 00 da ana a 0			
MGB-LB10	1000	VVDIVI (LC)	Single Wode Tokin	1550nm	1310nm	0 ~ 60 degrees C				
MGB-LA20	1000	WDM (LC)	Cinala Mada	20km	1310nm	1550nm	0 ~ 60 degrees C			
MGB-LB20	1000	VVDIVI (LC)	Single Mode	ZUKIII	1550nm	1310nm	0 ~ 60 degrees C			
MGB-LA40	1000	MDM (LC)	Cinala Mada	40lm	1310nm	1550nm	0 . 60 dogrado C			
MGB-LB40	1000	WDM (LC)	Single Mode 40km	1550nm	1310nm	0 ~ 60 degrees C				
MGB-LA80	1000	WDM (LC)	Single Mode 80km	90km	1310nm	1550nm	0 ~ 60 degrees C			
MGB-LB80	1000	WDW (LC)		OUKIII	1550nm	1310nm	u ~ ou degrees C			
MGB-TLA10	1000	WDM (LC) Single	WDM (LC) Single Mode 10km 1310nm 1550nm	10km	1310nm	1550nm	-40 ~ 75 degrees C			
MGB-TLB10	1000	VVDIVI (LC)		Single Mode Tokin	1550nm	1310nm	-40 ~ 75 degrees C			
MGB-TLA20	1000	WDM (LC)	Single Mode	20km	1310nm	1550nm	-40 ~ 75 degrees C			
MGB-TLB20	1000		Single wode 20	Siligle Mode 20k	ZUKIII	1550nm	1310nm	-40 ~ 75 degrees C		
MGB-TLA40	1000	WDM (LC)	Single Mode	40km	1310nm	1550nm	-40 ~ 75 degrees C			
MGB-TLB40	1000			Single Mode	408111	1550nm	1310nm	-40 ~ 75 degrees C		
MGB-TLA80	1000	WDM (LC)	1000 WDM (LC)	1000 WDM (LC) Single Mode	Single Mede	Cinalo Mada	80km	1310nm	1550nm	-40 ~ 75 degrees C
MGB-TLB80	1000 WDM (LC) Single Mode	Sillyle Woule	OUKIII	1550nm	1310nm	-40 - 15 degrees C				



Fast Ethernet Transceiver (100BASE-X SFP)

Model	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (nm)	Operating Temp.
MFB-FX	100	LC	Multi Mode	2km	1310nm	0 ~ 60 degrees C
MFB-F20	100	LC	Single Mode	20km	1310nm	0 ~ 60 degrees C
MFB-F40	100	LC	Single Mode	40km	1310nm	0 ~ 60 degrees C
MFB-F60	100	LC	Single Mode	60km	1310nm	0 ~ 60 degrees C
MFB-F120	100	LC	Single Mode	120km	1310nm	0 ~ 60 degrees C
MFB-TFX	100	LC	Multi Mode	2km	1310nm	-40 ~ 75 degrees C
MFB-TF20	100	LC	Single Mode	20km	1310nm	-40 ~ 75 degrees C

Fast Ethernet Transceiver (100BASE-BX, Single Fiber Bi-directional SFP)

Model	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (TX)	Wavelength (RX)	Operating Temp.
MFB-FA20	100	WDM(LC)	Single Mode	20km	1310nm	1550nm	0 ~ 60 degrees C
MFB-FB20	100	VVDIVI(LC)	Sirigle Wode	ZUKIII	1550nm	1310nm	0 ~ 60 degrees C
MFB-TFA20	100	WDM(LC)	Single Mode	20km	1310nm	1550nm	-40 ~ 75 degrees C
MFB-TFB20	100	VVDIVI(LC)	Sirigle Wode	ZUKIII	1550nm	1310nm	-40 ~ 75 degrees C
MFB-TFA40	40 100 WDM(LC)	Single Mode	40km	1310nm	1550nm	-40 ~ 75 degrees C	
MFB-TFB40	100	VVDIVI(LC)	Olligie Mode	TOKIII	1550nm	1310nm	-40 ~ 75 degrees C

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