



Media Conversion

Extend Network Distance via Fiber Optic

- Largest Variety of Modules
- Carrier-Grade Optical Systems
- SNMP Central Management
- Versatile Installation
- OAM FTTX Management

Media Converter Chassis

- ▶ Managed **P.2**
- ▶ Standard **P.4**

Media Converters

- ▶ Smart Converter **P.3**
- ▶ Gigabit Ethernet Converter **P.4**
- ▶ Fast Ethernet Converter **P.5**
- ▶ VDSL2/Serial over Fast Ethernet Converter **P.6**
- ▶ Video over Fiber Converter **P.6**
- ▶ Video Server **P.6**



Industrial Converters

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- ▶ VDSL2 - Ethernet Extender **P.7**

PoE Media Converters **P.8**

Mini GBIC Fiber Module **P.8**

Managed Media Converter Chassis

Model	MC-1610MR	MC-1610MR48
Product Image	 Managed	 Managed
Slots	16 converter open slots; 2 power slots (1 loaded)	
Dimension (W x D x H)	440 x 350 x 88 mm; 2U	
Power Requirement	100 ~ 240V AC, 50/60Hz	-48V DC (-30 ~ -60V DC)
Power Consumption	120 watts (full load)	96 watts (full load)
Environment	Operating Temperature: 0 ~ 50 Degree C Humidity: 5% ~ 90% RH (non-condensing)	
Converter Modules	PLANET FST-80x, FST-81x, GST-70x; GST-80x series (Page 3)	
Management	SNMP v1/v2C, Web, CLI, SSH	
Management Ports	1 x RS-232 Console 1 x 10/100Base-TX RJ-45; Auto-MDI, Auto-Negotiation	
Features	System Temperature Threshold Protection, Slot Redundancy, Hot-swappable dual power system, SNMP trap	
Emission	CE, FCC class A	

Web / SNMP Management










- ▶ OAM
- ▶ Device Control
- ▶ Redundant Link
- ▶ Link Status monitoring
- ▶ SNMP Trap Alarm

Hot-Swappable / Flexible Power Input



Power Module















Smart Gigabit Ethernet Media Converter							
Model	GST-802	GST-802S	GST-806A15	GST-806B15	GST-806A60	GST-806B60	GST-805A
Product Image							
Ports	1 x 10/100/1000Base-T RJ-45; Auto-MDI, Auto-Negotiation, 1 x 1000Base-SX / LX						
Optic Interface	MM SC	SM SC	SM WDM SC				SFP
Wavelength	850nm	1310nm	TX: 1310nm RX: 1550nm	TX: 1550nm RX: 1310nm	TX: 1310nm RX: 1550nm	TX: 1550nm RX: 1310nm	Vary on module (Page 7)
Max Distance	220 / 550 m	10km	15km	15km	60km	60km	Vary on module
Dimension (W x D x H)	94 x 81 x 26 mm						
Power	5V DC, 2A max.						
Power Consumption	8.5 watts max.						
Environment	Operating Temperature: 0 ~ 50 Degree C Humidity: 5% ~ 90% RH (non-condensing)						
DIP Switch	DIP 1: Fiber Forced Mode, DIP 2: Fiber LLC Enable / Disable						
Features	9K Jumbo Frame; IEEE 802.3ah, TS-1000 OAM, In-band management, Remote loopback, Dying gasp event notificaiton						
Applied Chassis	MC-1610MR / MC-1610MR48						

TP Fiber

10/100/1000T
1000SX/LX

Smart

OAM

Smart Fast Ethernet Media Converter														
Model	FST-801	FST-802	FST-802S15	FST-802S35	FST-802S50	FST-806A20	FST-806B20	FST-811	FST-812	FST-812S15	FST-812S35	FST-812S50	FST-816A20	FST-816B20
Product Image														
Ports	1 x 10/100Base-TX RJ-45; Auto-MDI, Auto-Negotiation, 1 x 100Base-FX							1 x 10/100Base-TX RJ-45; Auto-MDI, Auto-Negotiation, 1 x 100Base-FX						
Optic Interface	MM ST	MM SC	SM SC			SM WDM SC		MM ST	MM SC	SM SC			SM WDM SC	
Wavelength	1310nm					TX: 1310nm, RX: 1550nm	TX: 1550nm, RX: 1310nm	1310nm					TX: 1310nm, RX: 1550nm	TX: 1550nm, RX: 1310nm
Max Distance	2km	2km	15km	35km	50km	20km	20km	2km	2km	15km	35km	50km	20km	20km
Dimension	94 x 81 x 26 mm							94 x 81 x 26 mm						
Power	5V DC, 2A max.							5V DC, 2A max.						
Power Consumption	FST-80x: 6.7 watts / FST-81x: 3.2 watts							FST-80x: 6.7 watts / FST-81x: 3.2 watts						
Environment	Operating Temperature: 0 ~ 50 Degree C Humidity: 5% ~ 90% RH (non-condensing)							Operating Temperature: 0 ~ 50 Degree C Humidity: 5% ~ 90% RH (non-condensing)						
DIP Switch	6; TP speed, TP negotiation, TP/FX duplex mode, LLCF, LLR							2; DIP 1: Flow Control Enable / Disable, DIP 2: LFP Enable / Disable						
Features	Smart managed via MC-16xx for both FST-80x/FST-81x							FST-81x: 9K frame size; IEEE802.3ah, TS-1000 OAM, In-band management, Remote loopback, Dying gasp event notification						
Applied Chassis	MC-1610MR / MC-1610MR48							MC-1610MR / MC-1610MR48						

TP Fiber





10/100TX
100FX

Smart

OAM

Remark: 1. MM: 50/125µm or 62.5/125µm multi-mode Fiber Cable.
 2. SM: 9/125µm single mode Fiber Cable.
 3. WDM: Wavelength Division Multiplexing Optic Interface, the connection should runs in pair, i.e. A model fit to B model
 4. LLCF: Link loss Carry Forward; LLR: Link Loss Return; LFP: Link Fault Passthrough

Standard Media Converter Chassis

Model	MC-700	MC-1500	MC-1500R	MC-1500R48
Product Image				
Slots	7 converter open slots	15 converter open slots	15 converter slots; 2 power slots (1 loaded)	
LED Indicators	Power x 1 FAN x 1	Power x 1 FAN x 2	Power x 2 FAN x 2	
Dimension	217 x 140 x 88.5mm 2U	440 x 180 x 103mm 2.4U		
Weight	2kg	5kg	5.5kg	
Power Requirement	100 ~ 240V AC, 50/60Hz			-48V DC (-30 ~ -60V DC)
Power Consumption	40 watts (ful load)	75 watts (ful load)	90 watts (ful load)	90 watts (ful load)
Power output per slot	5V DC, 2A max.			
Environment	Operating Temperature: 0~50 Degree C Storage Temperature: -10~70 Degree C Humidity: 10~90% RH (operating), 5~90% RH (Storage)			
Converter Modules	PLANET FT-80x, FT-90x, FT-1105/1205, GT-80x, GT-90x, VC-201/202, VC-231, ICS-10x series (Page 4 ~ 6)			
Emission	CE, FCC class A			
Installation	Rack Mounting			



MC-1500R Rear




Managed

10/100/1000T
1000SX/LX

TP
Fiber

OAM

Managed Gigabit Ethernet Media Converter




Model	GT-902	GT-902S	GT-906A15	GT-906B15	GT-906A60	GT-906B60	GT-905A
Product Image							
Ports	1 x 10/100/1000Base-T RJ-45; Auto-MDI, Auto-Negotiation, 1 x 1000Base-SX / LX						
Optic Interface	MM SC	SM SC	SM WDM SC				SFP
Wavelength	850nm	1310nm	TX: 1310nm RX: 1550nm	TX: 1550nm RX: 1310nm	TX: 1310nm RX: 1550nm	TX: 1550nm RX: 1310nm	Vary on module (Page 7)
Max Distance	220/550m	10km	15km	15km	60km	60km	Vary on module
Dimension	94 x 70 x 26 mm						
Power	5V DC, 2A max.						
Power Consumption	5.6 watts max.						
Environment	Operating Temperature: 0 ~ 50 Degree C Humidity: 5 ~ 90% RH (non-condensing)						
Management	Web, SNMPv1, v2c, Smart Discovery utility						
Features	Max. Packet Size: 9K Jumbo Frame VLAN: 802.1q VLAN, QinQ VLAN Priority: 802.1p, IP DSCP, WRR QoS policy Remote Management: IEEE802.3ah, TS-1000 OAM, In-band management, Remote loopback						
Applied Chassis	MC-700 / MC-1500 / MC-1500R / MC-1500R48						

TP
Fiber

10/100/1000T
1000SX/LX

OAM

Gigabit Ethernet Media Converter





Model	GT-802	GT-802S	GT-806A15	GT-806B15	GT-806A60	GT-806B60	GT-805A
Product Image							
Ports	1 x 10/100/1000Base-T RJ-45; Auto-MDI, Auto-Negotiation, 1 x 1000Base-SX / LX						
Optic Interface	MM SC	SM SC	SM WDM SC				SFP
Wavelength	850nm	1310nm	TX: 1310nm RX: 1550nm	TX: 1550nm RX: 1310nm	TX: 1310nm RX: 1550nm	TX: 1550nm RX: 1310nm	Vary on module
Max Distance	220/550m	10km	15km	15km	60km	60km	Vary on module
Dimension	94 x 70 x 26 mm						
Power	5V DC, 2A max.						
Power Consumption	5 watts max.						
Environment	Operating Temperature: 0 ~ 50 Degree C Humidity: 5 ~ 90% RH (non-condensing)						
Features	9K Jumbo Frame, TS-1000 / OAM support						
Applied Chassis	MC-700 / MC-1500 / MC-1500R / MC-1500R48						

Managed

10/100TX
100FX

TP
Fiber



OAM

Managed Fast Ethernet Media Converter							
Model	FT-902	FT-902S15	FT-902S35	FT-902S50	FT-906A20	FT-906B20	FT-905A
Product Image							
Ports	1 x 10/100Base-TX RJ-45; Auto-MDI, Auto-Negotiation, 1 x 100Base-FX						
Optic Interface	MM SC	SM SC			SM WDM SC		SFP
Wavelength	1310nm				TX: 1310nm RX: 1550nm	TX: 1550nm RX: 1310nm	Vary on module (Page 7)
Max Distance	2km	15km	35km	50km	20km	20km	Vary on module
Dimension (W x D x H)	94 x 70 x 26 mm						
Power	5V DC, 2A max.						
Power Consumption	5.5 watts max.						
Environment	Operating Temperature: 0 ~ 50 Degree C Humidity: 5 ~ 90% RH (non-condensing)						
Management	Web, SNMPv1, v2c, Smart Discovery utility						
Features	Max. Packet Size: 2Kbytes VLAN: 802.1q VLAN, QinQ VLAN Priority: 802.1p, IP DSCP, WRR QoS policy Remote Management: IEEE802.3ah, TS-1000 OAM, In-band management, Remote loopback						
Applied Chassis	MC-700 / MC-1500 / MC-1500R / MC-1500R48						

TP
Fiber





H/W Port
Redundant

10/100TX
100FX

Dual SFP Fast / Gigabit Ethernet Media Converter		
Model	FT-1205A	GT-1205A
Product Image		
Ports	1 10/100Base-TX 2 100Base-FX	1 10/100/1000Base-T 2 1000Base-SX/LX
Optic Interface	SFP	SFP
Wavelength	Vary on module	
Max Distance	Vary on module	
Dimension (W x D x H)	94 x 70 x 26 mm	
Power	5V DC, 2A max.	
Power Consumption	5.7 watts max.	5.4 watts max.
Environment	Operating Temperature: 0 ~ 50 Degree C Humidity: 5 ~ 90% RH (non-condensing)	
Features	DIP switch for 3-port Switch mode, redundant mode support	-
Applied Chassis	MC-700 / MC-1500 / MC-1500R / MC-1500R48	

TP
Fiber

10/100TX
100FX

Fast Ethernet Media Converter							
Model	FT-801	FT-802	FT-802S15	FT-802S35	FT-802S50	FT-806A20	FT-806B20
Product Image							
Ports	1 x 10/100Base-TX RJ-45; Auto-MDI, Auto-Negotiation, 1 x 100Base-FX						
Optic Interface	MM ST	MM SC	SM SC				SM WDM SC
Wavelength	1310nm					TX: 1310nm RX: 1550nm	TX: 1550nm RX: 1310nm
Max Distance	2km	2km	15km	35km	50km	20km	20km
Dimension (W x D x H)	94 x 70 x 26 mm						
Power	5V DC, 2A max.						
Power Consumption	5.5 watts						
Environment	Operating Temperature: 0 ~ 50 Degree C Humidity: 5 ~ 90% RH (non-condensing)						
Features	LFP, FX duplex mode selection						
Applied Chassis	MC-700 / MC-1500 / MC-1500R / MC-1500R48						

Standard Media Converter Installation



Din Rail Installation
Optional Kit (RKE-DIN)-
Apply to PLANET converter
of the same form factor








Chassis Installation




Wall Mount Installation

Analog
to
Fiber

Video over Fiber Media Converter					
Model	VF-101-KIT	VF-102SC-KIT	VF-102S15-KIT	VF-102-KIT	VF-106-KIT
Product Image					
Ports	1 x Fiber, 1 x BNC (75ohm / unbalanced interface)				
Optic Interface	MM ST	MM SC	SM SC	SM FC	SM WDM SC
Wavelength	1310nm			T model: TX 1310nm RX 1550nm R model: TX 1550nm RX 1310nm	T model: TX 1310nm RX 1550nm R model: TX 1550nm RX 1310nm
Max Distance	2km	2km	15km	20km	20km
Dimension (W x D x H)	94 x 70 x 26 mm				
Power	5V DC, 2A max.				
Power Consumption	4.8 watts max.				
Environment	Operating Temperature: 0 ~ 50 Degree C, Humidity: 5% ~ 90% RH (non-condensing)				
Video Specification	1 bi-directional channel; NTSC/PAL system compliant; 6.5MHz video bandwidth; SNR Weighted @ 63db (typical)				
Data Interface Specification	1 simplex channel RS-485; 115.2kbps data rate max.; Bit Error Rate @ 10ns				
Applied Chassis	MC-700 / MC-1500	MC-700 / MC-1500 / MC-1500R / MC-1500R48			




Analog
to
IP




H.264 Internet Video Server	
Model	IVS-H120
Product Image	
Max Resolution	720 x 480 (30fps)
Image Compression	H.264 / MPEG-4 / M-JPEG
Video Input	BNC x 1
Audio in	■
Audio out	■
2-way Audio	■
Audio Condec	G.711, G.726, AMR
3GPP	■
Save-to-NAS	■
Multi-Profile	■
RS-485	■
DI / DO	1 / 1
Applied Chassis	MC-700 / MC-1500 Series

VDSL2 to
TP

Profile
17a

Profile
30a

VDSL2 Media Converter			
Model	VC-201A	VC-202A	VC-231
Product Image			
Ports	1 x 10/100Base-TX 2 x RJ-11 (built-in splitter)	1 x 10/100Base-TX 1 x BNC female	1 x 10/100Base-TX 1 x RJ-11
VDSL2 standards	ITU-T G.993.1, G.993.2 (Profile 17A)		ITU G.993.1, G.993.2 (Profile 30A)
VDSL2 Cable	AWG24 or better	50ohm RG58 75ohm RG6	AWG24 or better
Max Distance	1.6km	1.6km	1.4km
Dimension (W x D x H)	94 x 70 x 26 mm		
Power	5V DC, 2A max.		
Power Consumption	5.6 watts max.		6.6 watts max.
Environment	Operating Temperature: 0 ~ 50 Degree C Humidity: 5% ~ 90% RH (non-condensing)		
Performance * (down/upstream)	100 / 55Mbps (200m) 45 / 15Mbps (1000m) 25 / 4Mbps (1.6km)	100 / 65Mbps (200m) 100 / 42Mbps (1000m) 70 / 10Mbps (1.6km)	Profile 30a 100 / 100Mbps (300m) Profile 17a 60 / 9Mbps (1.0km) 50 / 2Mbps (1.4km)
Features	DIP switch for master / slave operating mode selection, Wall mount, DIN Rail mount or Chassis		
Applied Chassis	MC-700 / MC-1500 / MC-1500R / MC-1500R48		

Serial over Fast Ethernet Media Converter			
Model	ICS-100	ICS-102	ICS-102S15
Product Image			
Ports	1 x 10/100Base-TX 1 x RS-232	1 x 100Base-FX 1 x RS-232	
Optic Interface	-	MM SC	SM SC
Wavelength	-	1310nm	1310nm
Max Distance	100m UTP	2km	15km
Serial Interface	3-in-1 DB9, RS-232, RS-422 and RS-485 (2/4-wire) 110 to 921Kbps		
Dimension	94 x 70 x 26 mm		
Power	5V DC, 2A max.		
Power Consumption	5.5 watts		
Environment	Operating Temperature: 0 ~ 50 Degree C Humidity: 5% ~ 90% RH (non-condensing)		
Features	Web Management, VCOM utility, PLANET Smart Discovery Multiple operating modes		
Applied Chassis	MC-700 / MC-1500 / MC-1500R / MC-1500R48		









DB9 to
TP

RS-485

RS-232





Remark: The performance table only shows the reference distance and bandwidth, the actual performance may vary on the line quality and the environment factors.

Industrial Ethernet Media Converter



Model	IFT-802T	IFT-802TS15 IFT-802TS30	IFT-805AT	IGT-902	IGT-902S	IGT-905A	IGT-1205AT
Product Image			 				
Ports	1 x 10/100Base-TX RJ-45; Auto-MDI, Auto-Negotiation, 1 x 100Base-FX			1 x 10/100/1000Base-T RJ-45; Auto-MDI, Auto-Negotiation, 1 x 1000Base-SX / LX			1 x 10/100/1000Base-T RJ-45; Auto-MDI, Auto Negotiation, 2 x 1000Base-SX / LX
Optic Interface	MM SC	SM SC	SFP	MM SC	SM SC	SFP	SFP
Wavelength	1310nm	1310nm	Vary on module	850nm	1310nm	Vary on module (Page 7)	Vary on module
Max Distance	2km	15km / 30km	Vary on module	220m / 550m	120km	Vary on module	Vary on module
Dimension (W x D x H) Hardware Specification	32 x 87.5 x 135 mm; IP30 enclosure; Wall / Din-rail mounting						
Power	12V DC ~ 48V DC Dual Power input; Polarity Reverse Protection						
Power Consumption	4.6 watts max.			7.7 watts max.			4.8 watts max.
Environment	Operating Temperature: -40~ 75 Degree C, Humidity: 5% ~ 90% RH (non-condensing)			Operating Temperature: -30 ~ 75 Degree C, Humidity: 5% ~ 90% RH (non-condensing)			
Management	-			Web, SNMPv1, v2c, Smart Discovery utility			-
Features	Slim type IP-30 Metal Case DIN Rail and Wall Mount Design 6KV EFT Protection / 6KV ESD Protection			Max. Packet Size: 9K Jumbo Frame VLAN: 802.1q VLAN, QinQ VLAN Priority: 802.1p, IP DSCP, WRR QoS policy Remote Management: IEEE802.3ah, TS-1000 OAM, In-band management, Remote loopback			Slim type IP-30 Metal Case DIN Rail and Wall Mount Design 6KV EFT Protection / 6KV ESD Protection
Stability Testing	IEC60068-2-32 (Free Fall); IEC60068-2-27 (Shock); IEC60068-2-6 (Vibration)						



Industrial Serial to Ethernet Media Converter

Model	ICS-2100	ICS-2102	ICS-2102S15	ICS-2105A
Product Image				
Ports	1 x 10/100Base-TX 1 x RS-232 1 x 4-pin terminal block	1 x 100Base-FX 1 x RS-232 1 x 4-pin terminal block		1 x 100Base-FX(SFP) 1 x RS-232 1 x 4-pin terminal block
Optic Interface	-	MM SC	SM SC	Vary on module
Wavelength	-	1310nm	1310nm	Vary on module
Max Distance	100m UTP	2km	15km	Vary on module
Serial Interface	DB9: RS-232 Terminal block: RS-422 and RS-485 (2/4-wire) 110 to 921Kbps			
Dimension (W x D x H) Hardware Specification	32 x 87.5 x 135 mm; IP30 enclosure; Wall / Din-rail mounting			
Power	12V DC ~ 48V DC Dual Power input; Polarity Reverse Protection			
Power Consumption	10.1 watts max.			
Environment	Operating Temperature: 0~ 50 Degree C, Humidity: 5% ~ 90% RH (non-condensing)			
Features	Web Management, VCOM utility, PLANET Smart Discovery, Multiple operating modes			
Stability Testing	IEC60068-2-32 (Free Fall); IEC60068-2-27 (Shock); IEC60068-2-6 (Vibration)			

Industrial Ethernet Extender - Ethernet over VDSL2 Converter

Model	IVC-2002	IVC-2004PT
Product Image		
Ports	4 x 10/100Base-TX 1 x RJ-11, 1 x BNC	4 x 10/100Base-TX (802.3af PoE PSE) 1 x RJ-11, 1 x BNC
VDSL2 standards	ITU-T G.993.1, G.993.2 (Profile 17A)	
VDSL2 Cable	RJ-11: AWG24 or better, BNC: RG58 (50ohm) / RG6 (75ohm)	
Max Distance	RJ-11: 1.4km, BNC: 2.4km	
Dimension (W x D x H) Hardware Specification	32 x 87.5 x 135 mm; IP30 enclosure; Wall / Din-rail mounting	50 x 87.5 x 135 mm; IP30 enclosure; Wall / Din-rail mounting
Power	12V DC ~ 48V DC Dual Power input; Polarity Reverse Protection	24V DC or 48V DC Dual Power input; Polarity Reverse Protection
Power Consumption	5.6 watts max.	5.6 watts no POE. 66.4 watts with POE loaded
Environment	Operating Temperature: -40~ 75 Degree C Humidity: 5 ~ 90% RH (non-condensing)	
Performance * (down/upstream)	RJ11: 100 / 60Mbps (200m), 20 / 10Mbps (1.4km) BNC: 95/90 (200m), 30/4 (2.4km)	
Features	DIP switch for master / slave operating mode selection, Wall mount, DIN Rail mount	

Remark: The performance table only shows the reference distance and bandwidth, the actual performance may vary on the line quality and the environment factors.



Industrial PoE Media Converter				PoE Gigabit / Fast Ethernet Media Converter				
Model	IGTP-802T	IGTP-802TS	IGTP-805AT	GTP-802	GTP-802S15	GTP-805A	FTP-802	FTP-802S15
Product Image								
Ports	1x 10/100/1000Base-T RJ-45, Auto-negotiation, 1000Base-SX/LX						1x 10/100Base-TX RJ-45, Auto-negotiation, 100Base-FX	
Fiber Interface	MM SC	SM SC	SFP (LC)	MM SC	SM SC	SFP (LC)	MM SC	SM SC
Fiber Cable Wavelength	850nm	1310nm	Vary on SFP Module	850nm	1310nm	Vary on SFP Module	850nm	1310nm
Max Distance	220m & 550m	10km	Vary on SFP Module	220m & 550m	10km	Vary on SFP Module	2km	15km
Dimension (W x D x H)	135mm x 87mm x 32mm			70 x 97 x 26mm				
Power Requirement	24 and 48V DC			52V DC, 0.6A max.			48V DC, 0.35A max.	
Power Consumption	24V: 33 Watts / 112BTU, 48V: 31 Watts / 105BTU (With PoE)			36 Watts max. with PoE load			21 Watts max. with PoE load	
Environment	Operating Temperature: -40 ~75 Degree C Humidity: 5% ~ 95% (non-condensing)			Operating Temperature: 0 ~50Degree C Humidity: 5% ~ 90% (non-condensing)				
IEEE 802.3at / 802.3af PoE Port	1, End-Span, 1/2(+), 3/6(-)			1, End-Span, 1/2(+), 3/6(-)			1, End-Span, 1/2(+), 3/6(-), 802.3af only	
LFP DIP Switch	ON / OFF			ON / OFF				
Enclosure	IP30 Metal Case			Metal Case				
Installation	DIN rail kit and wall mount ear							
Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock)			N/A				

Mini-GBIC SFP - Small Formfactor Pluggable Fiber Adapter							
Model	MFB-FX*	MFB-F20* / MFB-F40 / MFB-F60	MFB-FA20 / MFB-FB20	MGB-SX*	MGB-LX* / MGB-L30*	MGB-L50 / MGB-L70 / MGB-L120	MGB-LA10 / MGB-LB10 / MGB-LA20 / MGB-LB20
Product Image							
Ports	3.3v mini GBIC SFP 100Base-FX			3.3V mini GBIC SFP 1000Base-SX/ LX			
Optic Interface	MM LC	SM LC	SM WDM LC	MM LC	SM LC	SM LC	SM WDM LC
Wavelength	1300nm	1310nm	A model: TX: 1310nm / RX: 1550nm B model: TX: 1550nm / RX: 1310nm	850nm	1310nm	1550nm	A model: TX: 1310nm / RX: 1550nm B model: TX: 1550nm / RX: 1310nm
Max. Distance	2km	20 / 40 / 60km	20km	220 / 550m	10 / 30km	50 / 70 / 120km	10 / 20km
Dimension (W x D x H)	13.4 x 56.5 x 8.5mm						
Power	3.3V DC						
Environment	Operating Temperature: 0 ~ 50 Degree C, Humidity: 5% ~ 90% RH (non-condensing)						
Device Applied	PLANET Range of Fast Ethernet Media Converter, Switches with mini GBIC interface**			PLANET Range of Gigabit Ethernet Media Converter, Switches with mini GBIC interface			

Remark: 1. Harden model also available with "-Txx", for example, MFB-TFX. And with operating temperature from -40 to 75 degree C.
2. Some of PLANET Gigabit Switches also support 100Base-FX connective such as SGSW-24240. Please check the website for more information about your selected switches.
Note: Please check the Website for detailed Fiber Link Budget, in some circumstances, optic attenuator is required to protect the sensitive optic components.