

Media Conversion

Extend Network Distance via Fiber Optic

PLANET
Networking & Communication

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Managed Media Converter Chassis		
Model	MC-1610MR	MC-1610MR48
Product Image		
Slots	16 converter open slots; 2 power slots (1 loaded)	
Dimensions (W x D x H)	440 x 350 x 88 mm; 2U	
Power Requirements	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 degrees C, Humidity: 5% ~ 90% RH (non-condensing)	
Converter Modules	PLANET FST-80x ; 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



1. OAM
2. Device Control
3. Redundant Link
4. Link Status Monitoring
5. SNMP Trap Alarm

Hot-swappable/Flexible Power Input



Dual AC



Dual DC



DC + AC

Power Module

Smart Gigabit Ethernet Media Converters

Model	GST-802	GST-802S	GST-806A15	GST-806B15	GST-806A60	GST-806B60	GST-805A
Product Image							
Ports	1 x 10/100/1000BASE-T RJ45; 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	depending on module (Page 8)
Max. Distance	220 / 550 m	10km	15km	15km	60km	60km	depending on module
Dimensions (W x D x H)	94 x 81 x 26 mm						
Power Requirements	5V DC, 2A max.						
Power Consumption	8.5 watts max.						
Environment	Operating Temperature: 0 ~ 50 degrees 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 notification						
Applied Chassis	MC-1610MR/MC-1610MR48						

Smart Fast Ethernet Media Converters

Model	FST-801	FST-802	FST-802S15	FST-802S35	FST-802S50	FST-806A20	FST-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
Dimensions (W x D x H)	94 x 81 x 26 mm						
Power Requirements	5V DC, 2A max.						
Power Consumption	FST-80x: 6.7 watts						
Environment	Operating Temperature: 0 ~ 50 degrees C, Humidity: 5% ~ 90% RH (non-condensing)						
DIP Switch	TP speed, TP negotiation, TP/FX duplex mode, LLCF, LLR						
Features	Smart managed via MC-16xx for both FST-80x						
Applied Chassis	MC-1610MR/MC-1610MR48						

Remarks: 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 run in pair, i.e. model A fits model B
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	
Dimensions (W x D x H)	217 x 140 x 88.5mm, 2U	440 x 180 x 103mm, 2.4U		
Weight	2kg	5kg	5.5kg	
Power Requirements	100 ~ 240V AC, 50 / 60Hz			-48V DC (-30 ~ -60V DC)
Power Consumption	40 watts (full load)	75 watts (full load)	90 watts (full load)	90 watts (full load)
Power Output per Slot	5V DC, 2A max.			
Environment	Operating Temperature: 0~50 degrees C, Storage Temperature: -10~70 degrees C Humidity: 10~90% RH (operating), 5~90% RH (storage)			
Converter Modules	PLANET FT-80x, FT-90x, FT-1205A, GT-80x, GT-90x, VC-201A/202A, VC-231, ICS-10x series (Page 4 ~ 6)			
Emission	CE, FCC class A			
Installation	Rack Mounting			



MC-1500R Rear Panel

Managed Gigabit Ethernet Media Converters

Model	GT-902	GT-902S	GT-906A15	GT-906B15	GT-906A60	GT-906B60	GT-905A
Product Image							
Ports	1 x 10/100/1000BASE-T RJ45; 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	depending on module (Page 8)
Max. Distance	220/550m	10km	15km	15km	60km	60km	depending on module
Dimensions (W x D x H)	94 x 70 x 26 mm						
Power Requirements	5V DC, 2A max.						
Power Consumption	5.6 watts max.						
Environment	Operating Temperature: 0 ~ 50 degrees 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: IEEE 802.3ah, TS-1000 OAM, In-band management, Remote loopback, dying gasp						
Applied Chassis	MC-700/MC-1500/MC-1500R/MC-1500R48						

Gigabit Ethernet Media Converters

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	depending on module
Max. Distance	220/550m	10km	15km	15km	60km	60km	depending on module
Dimensions (W x D x H)	94 x 70 x 26 mm						
Power Requirements	5V DC, 2A max.						
Power Consumption	5 watts max.						
Environment	Operating Temperature: 0 ~ 50 degrees 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 Fast Ethernet Media Converters

Model	FT-902	FT-902S15	FT-902S35	FT-902S50	FT-906A20	FT-906B20	FT-905A
Product Image							
Ports	1 x 10/100BASE-TX RJ45; 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	depending on module (Page 8)
Max. Distance	2km	15km	35km	50km	20km	20km	depending on module
Dimensions (W x D x H)	94 x 70 x 26 mm						
Power Requirements	5V DC, 2A max.						
Power Consumption	5.5 watts max.						
Environment	Operating Temperature: 0 ~ 50 degrees 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: IEEE 802.3ah, TS-1000 OAM, In-band management, Remote loopback, dying gasp						
Applied Chassis	MC-700/MC-1500/MC-1500R/MC-1500R48						

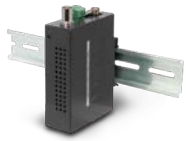
Dual SFP Fast/Gigabit Ethernet Media Converters

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	depending on module	
Max. Distance	depending on module	
Dimensions (W x D x H)	94 x 70 x 26 mm	
Power Requirements	5V DC, 2A max.	
Power Consumption	5.7 watts max.	5.4 watts max.
Environment	Operating Temperature: 0 ~ 50 degrees 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	

Fast Ethernet Media Converters

Model	FT-801	FT-802	FT-802S15	FT-802S35	FT-802S50	FT-806A20	FT-806B20
Product Image							
Ports	1 x 10/100BASE-TX RJ45; 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
Dimensions (W x D x H)	94 x 70 x 26 mm						
Power Requirements	5V DC, 2A max.						
Power Consumption	5.5 watts						
Environment	Operating Temperature: 0 ~ 50 degrees 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

Video over Fiber Media Converters

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	1310nm	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
Dimensions (W x D x H)	94 x 70 x 26 mm				
Power Requirements	5V DC, 2A max.				
Power Consumption	4.8 watts max.				
Environment	Operating Temperature: 0 ~ 50 degrees C, Humidity: 5% ~ 90% RH (non-condensing)				
Video Specifications	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-1500R/MC-1500R48				

H.264 Internet Video Server

Model	IVS-H125
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 Codec	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 Media Converters

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
Dimensions (W x D x H)	94 x 70 x 26 mm		
Power Requirements	5V DC, 2A max.		
Power Consumption	5.6 watts max.		6.6 watts max.
Environment	Operating Temperature: 0 ~ 50 degrees C, Humidity: 5% ~ 90% RH (non-condensing)		
Performance * (down/upstream)	100/55Mpbs (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 Converters

Model	ICS-100	ICS-102	ICS-102S15	ICS-105A
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	MM/SM LC
Wavelength	-	1310nm	1310nm	depending on SFP Module (Page 8)
Max. Distance	100m UTP	2km	15km	550m ~ 120km depending on SFP Module
Serial Interface	3-in-1 DB9, RS-232, RS-422 and RS-485 (2/4-wire) 110 to 921Kbps			
Dimensions	94 x 70 x 26 mm			
Power Requirements	5V DC, 2A max.			
Power Consumption	5.5 watts			
Environment	Operating Temperature: 0 ~ 50 degrees 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			

Remarks: The performance table only shows the distance and bandwidth as references. The actual performance may vary on the line quality and the environmental factors.

Industrial Ethernet Media Converters

Model	IFT-802T	IFT-802TS15 / IFT-802TS30	IFT-805AT	IGT-902	IGT-902S	IGT-905A	IGT-805AT	IGT-1205AT
Product Image								
Ports	1 x 10/100BASE-TX RJ45; Auto-MDI, Auto-Negotiation, 1 x 100BASE-FX			1 x 10/100/1000BASE-T RJ45; Auto-MDI, Auto-Negotiation, 1 x 1000BASE-SX/LX				1 x 10/100/1000BASE-T RJ45; Auto-MDI, Auto Negotiation, 2 x 1000BASE-SX/LX
Optic Interface	MM SC	SM SC	SFP	MM SC	SM SC	SFP	SFP	SFP
Wavelength	1310nm	1310nm	depending on module	850nm	1310nm	depending on module (Page 7)		depending on module
Max. Distance	2km	15km / 30km	depending on module	220m / 550m	120km	depending on module		depending on module
Dimensions (W x D x H)/ Installation	32 x 87.5 x 135 mm; IP30 enclosure; Wall/DIN-rail mouting							
Power Requirements	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 degrees C, Humidity: 5% ~ 90% RH (non-condensing)			Operating Temperature: -30 ~ 75 degrees C, Humidity: 5% ~ 90% RH (non-condensing)				
Management	-			Web, SNMPv1, v2c, Smart Discovery utility			-	-
Features	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			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 Converters

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-FX1 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	depending on module
Wavelength	-	1310nm	1310nm	depending on module
Max. Distance	100m UTP	2km	15km	depending on module
Serial Interface	DB9: RS-232 Terminal block: RS-422 and RS-485 (2/4-wire) 110 to 921Kbps			
Dimensions (W x D x H)/ Installation	32 x 87.5 x 135 mm; IP30 enclosure; Wall/DIN-rail mouting			
Power Requirements	12V DC ~ 48V DC Dual Power Input; Polarity Reverse Protection			
Power Consumption	10.1 watts max.			
Environment	Operating Temperature: 0~ 50 degrees 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 Converters

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	
Dimensions (W x D x H)/ Installation	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 Requirements	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 degrees 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	

Remarks: The performance table only shows the distance and bandwidth as references. The actual performance may vary on the line quality and the environmental factors.

Industrial PoE Media Converters				PoE Gigabit / Fast Ethernet Media Converters				
Model	IGTP-802T	IGTP-802TS	IGTP-805AT	GTP-802	GTP-802S15	GTP-805A	FTP-802	FTP-802S15
Product Image								
Ports	1 x 10/100/1000BASE-T RJ45, Auto-negotiation, 1000BASE-SX/LX						1 x 10/100BASE-TX RJ45, 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	depending on SFP Module	850nm	1310nm	depending on SFP Module	850nm	1310nm
Max. Distance	220m & 550m	10km	depending on SFP Module	220m & 550m	10km	depending on SFP Module	2km	15km
Dimensions (W x D x H)	135mm x 87mm x 32mm			70 x 97 x26mm				
Power Requirements	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 degrees C, Humidity: 5% ~ 95% (non-condensing)			Operating Temperature: 0 ~50 degrees 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			DIN rail kit and wall mount ear				
Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)			N/A				

Mini-GBIC SFP - Small Form Factor Pluggable Fiber Adapters							
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
Dimensions (W x D x H)	13.4 x 56.5 x 8.5mm						
Power Requirements	3.3V DC						
Environment	Operating Temperature: 0 ~ 50 degrees C, Humidity: 5% ~ 90% RH (non-condensing)						
Device Applied	PLANET Range of Fast Ethernet Media Converters, and Switches with mini GBIC interface**			PLANET Range of Gigabit Ethernet Media Converters, and Switches with mini GBIC interface			

Remarks: 1. Hardened model is also available with "-Txx", for example, MFB-TFX. And with operating temperature from -40 to 75 degrees C. 2. Most of PLANET Gigabit Switches also support 100BASE-FX connectivity. 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.

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