

Optic network for LAN, MAN, FTTx



Media Conversion

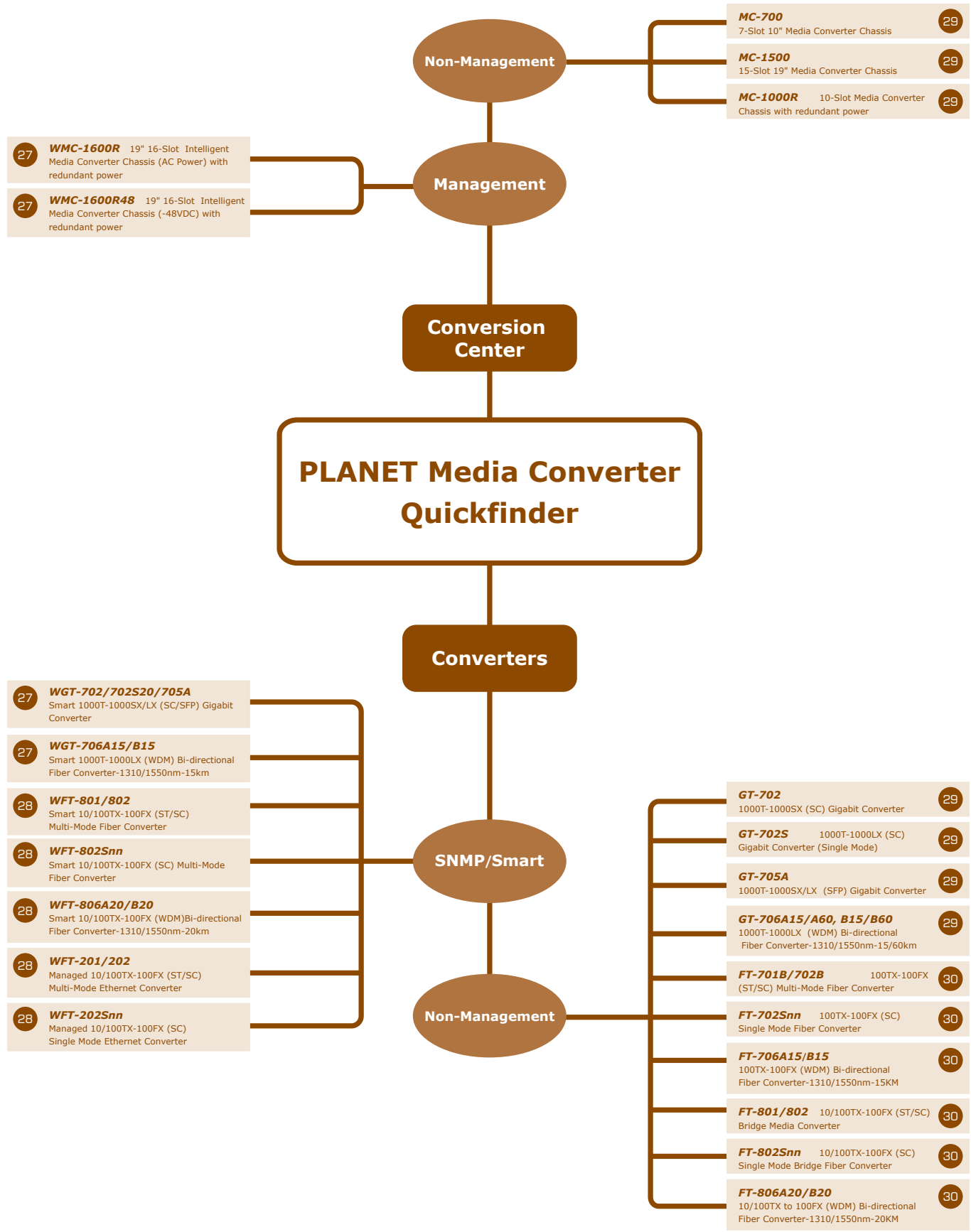
As the global network infrastructure is gradually enhanced, demands for advanced media conversion technology to update, expanding or optimizing network performance in mixed-media switching environments will be much better than ever. For providing the perfect solution to meet worldwide customers' needs, PLANET designs powerful media converters and delivers product combinations as well for various network environments.

PLANET's intelligent converter and chassis with smart converters provide an ideal solution with high reliability and flexibility. They can be managed by console, Telnet, Web and SNMP. In addition, the cost-effective converters without management function are also provided for customers to quickly deploy their media conversion network environment.

- Extension-FX, SX/LX optic model is optional for distance up to 100 kilometers
- Expansion-up to 16-Slot media conversion center
- Redundancy for Power and Optic links
- Flexibility-plug and play non-stop chassis system
- Management-Web/SNMP or Web/Smart management

Media Conversion

Quickfinder



Applications

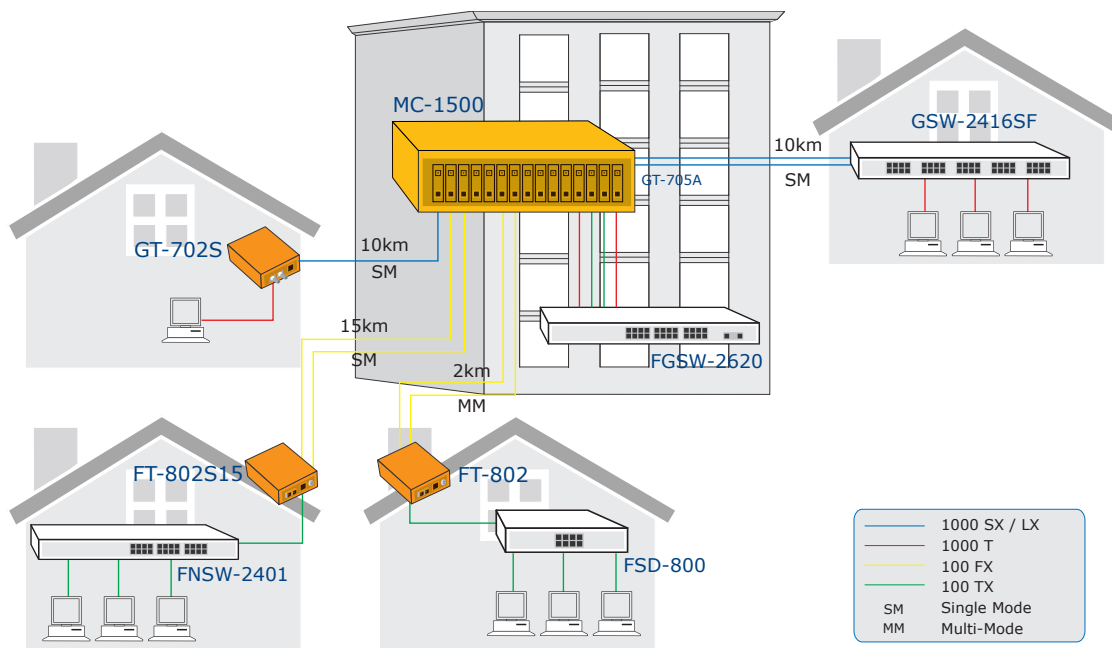
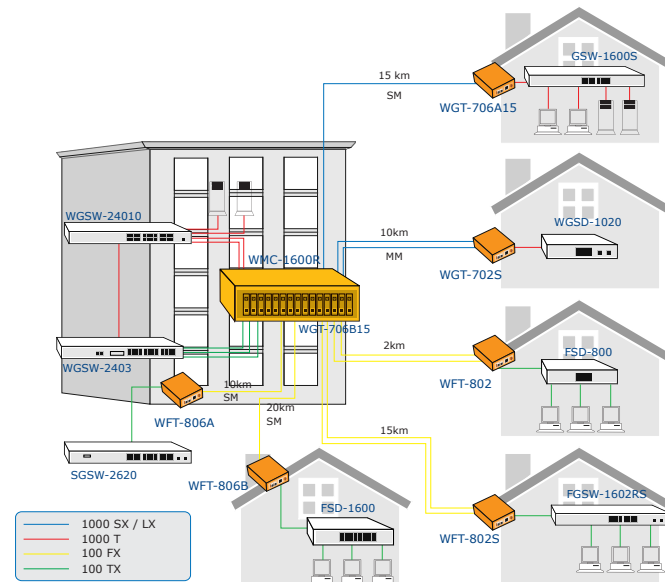
Fiber-optic Networking for MAN/LAN, enterprise, campus and home

The PLANET Media Converter family includes management (WMC) and non-managed (MC) solutions. The product family is designed for the applications such as FTTx installation for ISPs, campuses, and enterprises. Various types of optic connectors, and fiber-optic wires on the distance basis are provided flexibly. Therefore, the product family will perfectly satisfy diverse demands while providing reliable and efficient network solutions based on distance and installation budgets.

WMC family is a series of managed Media Conversion Center that provides hot plug and play slots for various types of converters. Through the management interface, the entire status of the converters will be clearly demonstrated within the chassis from on/off and status/statistics of ports, as well as the advanced features like redundant links.

Building a network solution of FTTH (Fiber To the Home) or FTTC (Fiber to the Curb) for ISPs, WMC family chassis, as well as WFT, WGT converters, offer the multiple selections. For enterprises, MC family builds the FTTB (Fiber To the Building) easily.

To meet the diverse connection types in the connector, ST, SC, MT-RJ, VF-45, LC (small form factor), and Bidi (WDM) are optional for customers. To prevent the situations that fiber cables used in pair, the Bidi (WDM) converters (model A and model B) could reduce the installation costs while the single SC fiber-optic wire is provided for both transmitting and receiving.



Media Conversion

Product Brief

Model		FT-701B	FT-702B	FT-702Sn ^{*1}	FT-703	FT-704	FT-706A15 / B15	FT-801	FT-802	FT-802Sn ^{*1}	FT-803	FT-804	FT-806A20 / B20
Product Description		Fast Ethernet Converter						10/100Base-TX Fast Ethernet Converter/Bidige					
Ports	100Mbps TP	1	1	1	1	1	1	-	-	-	-	-	-
	10/100Mbps TP	-	-	-	-	-	-	1	1	1	1	1	1
	100Mbps FX	1	1	1	1	1	1	1	1	1	1	1	1
	1000Mbps Fiber	-	-	-	-	-	-	-	-	-	-	-	-
Connector Type	RJ-45	1	1	1	1	1	1	1	1	1	1	1	1
	ST	1	-	-	-	-	-	1	-	-	-	-	-
	SC	-	1	1	-	-	-	-	1	1	-	-	-
	MT-RJ	-	-	-	1	-	-	-	-	-	1	-	-
	VF-45	-	-	-	-	1	-	-	-	-	-	1	-
WDM (Bi-directional) ^{*3}	-	-	-	-	-	-	1	-	-	-	-	-	1
Optic Wavelength		1310nm	1310nm	1310nm	1310nm	1310nm	1310/1550 ^{*3}	1310nm	1310nm	1310nm	1310nm	1310nm	1310/1550 ^{*3}
Features	Auto MDI detection	-	-	-	-	-	-	✓	✓	✓	✓	✓	✓
	MC Chassis	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	WMC Chassis	-	-	-	-	-	-	-	-	-	-	-	-
	5V DC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	7.5V DC	-	-	-	-	-	-	-	-	-	-	-	-
	Universal Power	-	-	-	-	-	-	-	-	-	-	-	-
	Full-Duplex selection	-	-	-	-	-	-	✓	✓	✓	✓	✓	✓
	Full-Duplex support	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Max. fiber distance [*]	2km	2km	15/35/50km	2km	2km	20km	2km	2km	15/35/50km	2km	2km	20km
Management Features	LLCF	-	-	-	-	-	-	✓	✓	✓	✓	✓	✓
	LLR	-	-	-	-	-	-	✓	✓	✓	✓	✓	✓
	SNMP management	-	-	-	-	-	-	-	-	-	-	-	-
	Web management	-	-	-	-	-	-	-	-	-	-	-	-

Model		FT-722	GT-702/702S	GT-705A	GT-706A/B 15,60	WFT-201 S15	WFT-202/ S15	WFT-801 /S15	WFT-802 /S15	WFT-806A20/ B20	WGT-702/ 702S20	WGT-705A	WGT-706A15/ B15
Product Description		Fast Ethernet SM to MM mode Converter	Gigabit Ethernet Converter			Fast Ethernet Stand- alone Converter/ Bridge		Smart 10/100Base-TX Fast Ethernet Converter/Bridge			Smart Gigabit Converter		
Ports	100Mbps TP	-	-	-	-	-	-	-	-	-	-	-	-
	10/100Mbps TP	-	-	-	-	1	1	1	1	1	-	-	-
	1000Mbps TP	-	1	1	1	-	-	-	-	-	1	1	1
	100Mbps FX	2	-	-	-	1	1	1	1	1	-	-	-
	1000Mbps Fiber	-	1	1	-	-	-	-	-	-	1	1	1
Connector Type	RJ-45	-	1	1	1	1	1	1	1	1	1	1	1
	ST	-	-	-	-	1	-	1	-	-	-	-	-
	SC	2	1	1	-	-	1	-	1	-	1	1	-
	MT-RJ	-	-	-	-	-	-	-	-	-	-	-	-
	VF-45	-	-	-	-	-	-	-	-	-	-	-	-
	LC (SFP)	-	-	1	-	-	-	-	-	-	-	1	-
	WDM (Bi-directional) ^{*3}	-	-	-	1	-	-	-	-	1	-	-	1
Optic Wavelength		1310nm	850 /1310nm	SX: 850nm LX: 1310nm	1310/ 1550nm ^{*3}	1310nm	1310nm	1310nm	1310nm	1310/ 1550nm ^{*3}	850/1310nm	850/1310nm	1310/ 1550nm ^{*3}
Features	Auto MDI detection	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MC Chassis	✓	✓	✓	✓	-	-	-	-	-	-	-	-
	WMC Chassis	-	-	-	-	-	-	✓	✓	✓	✓	✓	✓
	5V DC	✓	✓	✓	✓	-	-	-	-	-	-	-	-
	7.5V DC	-	-	-	-	-	-	✓	✓	✓	✓	✓	✓
	Universal Power	-	-	-	-	✓	✓	-	-	-	-	-	-
	Full-Duplex selection	-	-	-	-	✓	✓	✓	✓	✓	-	-	-
	Full-Duplex support	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Max. fiber distance [*]	10km	550m/10km	10km	15/60km	2km	2km	2km	2/15KM	20km	550m/20km	550m/10km	15km
Management Features	LLCF	✓	-	-	-	-	-	✓	✓	✓	✓	✓	✓
	LLR	✓	-	-	-	-	-	✓	✓	✓	✓	✓	✓
	SNMP management ^{*2}	-	-	-	-	✓	✓	✓ ^{*2}	✓ ^{*2}	✓ ^{*2}	✓ ^{*2}	✓ ^{*2}	✓ ^{*2}
	Web management ^{*2}	-	-	-	-	✓	✓	✓ ^{*2}	✓ ^{*2}	✓ ^{*2}	✓ ^{*2}	✓ ^{*2}	✓ ^{*2}

Remark:

1. FT-702Sn, FT-802Sn, the number "n" is the maximum distance of the fiber connectors; different distance is available upon request.
2. The Web/SNMP features are through management chassis. After slide-in to the management chassis, the converter shall update the information through the management interface of the chassis.
3. WDM (Bi-directional) should run in pair; A model (TX:1310nm. RX:1550nm) and B model (TX: 1550nm, RX: 1310nm) use single fiber-optic wire for both transmit and receive.

Management Media Chassis

Intelligent Media Converter Chassis

WMC-1600R/R48

WMC-1600R is a 16-Slot media chassis that supports SNMP management features. Providing Web, Telnet and SNMP MIB, the manager can directly setup and control the chassis remotely from the Internet.

Two power bays secure the power system from power failure. For Telco system, the WMC-1600R48 also provides DC -48V power supply. To work with PLANET WFT, WGT family, all the smart converters in the slots shall be managed by the chassis that make the whole network fully controlled.

- 16-Slot converter chassis, hot-swappable
- 2 power slots for redundant power support with options of 100~240V AC or -48V DC
- Support PLANET WFT, smart Fast Ethernet Converters, and WGT, smart Gigabit Ethernet Converters
- One 10/100Mbps Fast Ethernet port and one RS-232 port for remote/local management
- Configurable through RS-232 console, Telnet, Web and SNMP software
- Real-time converter status, power/fan status with SNMP events/traps
- Fiber-optic redundant link support over two converters



WMC-1600R

Smart Gigabit Ethernet Converters

WGT-702/702S20/705A/706A15/706B15

WGT-70x is a Gigabit Smart Converter converting 1000Base-T to 1000Base-SX/LX. With built-in DIP-switch, the WGT-702 provides Link Pass Through features that shutdown the TP or Fiber once the other end of connection is broken.

After sliding into Intelligent Media Chassis, WGT-70x soon can be managed, controlled by the chassis.

- One-channel media conversion between 1000Base-T and 1000Base-SX/ LX
- SC interface for Multi-Mode SX/LX or Single Mode LX
- Single SC (WDM) interface for Single Mode LX
- Link Pass Through with LLCF and LLR mechanisms
- DIP switch for Auto-Negotiation or force full-duplex and LLR enable or disable
- Act as a standalone smart device or work with Intelligent Media Chassis for SNMP management
- Provide one SFP (Mini-GBIC) port supporting either Multi-Mode or Single Mode fiber (WGT-705A)



WGT-702/702S20

Ordering Information

WMC-1600R	16-Slot Intelligent Media Converter Chassis (AC Power) with redundant power
WMC-1600R48	16-Slot Intelligent Media Converter Chassis (-48VDC Power) with redundant power

Available Redundant power supply

WMC-RPS150	150W Redundant Power Supply, 100-240VAC
WMC-RPS48	150W Redundant Power Supply, DC -48V

Ordering Information

WGT-702	1000Base-T to 1000Base-SX Smart Gigabit Converter
WGT-702S20	1000Base-T to 1000Base-LX Smart Gigabit Converter (Single Mode)
WGT-705A	1000Base-T to 1000Base-SX/LX Smart Gigabit converter (Mini GBIC, SFP)
WGT-706A15	1000Base-T to 1000 Base-LX (WDM) Smart Gigabit Converter-TX: 1310-15KM
WGT-706B15	1000Base-T to 1000 Base-LX (WDM) Smart Gigabit Converter-TX: 1550-15KM

Media Conversion

Smart/Managed Media Converters

Smart Fast Ethernet Converters

WFT-801, WFT-802, WFT-802S15, WFT-806A20/B20

WFT-80x is a smart media converter that supports smart features to prevent packet loss in the fiber-optic network. The support for Link Fault Pass Through makes the converter forward the link status to the other end.

The WFT-80x can be installed standalone or slided into the WMC, intelligent chassis. Through the DIP-switch of the converter, the duplex mode and Link Fault Pass Through features can be turn on or off base on the installation.

- One-channel 10/100Base-TX to 100Base-FX, Fast Ethernet Converter
- Fiber-optic interface allows ST, SC, WDM, Multi-Mode, Single Mode connectors
- Standalone Smart Media Converter with Link Fault Pass Through and duplex mode selection
- Slide into WMC-1600R for SNMP management with Link Fault Pass Through, duplex mode selection or converter status report
- Store and Forward switch mechanism



WFT-802/802S

Managed Fast Ethernet Converters

WFT-201/202/202S15

The WFT-20x is a Managed Ethernet Converter converting 10/100Base-TX to 100Base-FX. With RS-232, Telnet and Web interface, the WFT-20x can be easily setup, managed locally or remotely.

The WFT-20x, with full SNMP MIB support, can be controlled from any SNMP program in the Ethernet network. The web interface and telnet help the converter managed if SNMP program is not available.

- One-channel 10/100Base-TX to 100Base-FX, Fast Ethernet Converter
- Fiber-optic interface allows ST, SC, Multi-Mode, Single Mode connectors
- Up to 100 kilometers support
- Standalone SNMP Intelligent Media Converter with SNMP MIB II support
- Monitor and setup the converter, speed, duplex through Web, Telnet interface
- Store and Forward switch mechanism
- Compact size with universal power supply



WFT-202

Ordering Information

WFT-801	10/100Base-TX to 100Base-FX (ST) Smart Media Converter
WFT-802	10/100Base-TX to 100Base-FX (SC) Smart Media Converter
WFT-802S15*	10/100Base-TX to 100Base-FX (SC) Smart Media Converter - Single Mode 15KM
WFT-806A20	10/100Base-TX to 100Base-FX WDM Smart Media Converter-Tx: 1310)-20KM
WFT-806B20	10/100Base-TX to 100Base-FX WDM Smart Media Converter-Tx: 1550)-20KM

Remark: Distance up to 100km available upon request.

Ordering Information

WFT-201	Intelligent 10/100Base-TX to 100Base-FX (ST) Media Converter
WFT-202	Intelligent 10/100Base-TX to 100Base-FX (SC) Media Converter
WFT-202S15*	Intelligent 10/100Base-TX to 100Base-FX (SC) Media Converter-Single Mode 15KM

Remark: Distance up to 100km available upon request.

Media Converter Chassis

Media Converter Chassis

MC-700, MC-1500, MC-1000R

MC family is a series of media converter chassis that with choice of 7 to 15 converter slots. MC-700 is a 7 slot media converter chassis that can be placed on the desktop or mount to 10-inch cabinet. MC-1000R and MC-1500 are standard 19-inch rack mountable media converter chassis in 2.4 unit height.

MC family media converter chassis can support PLANET media chassis from Ethernet converters to Gigabit Converters by providing individual 5VDC power supply to each converter.

- 7, 10, 15-Slot media converter chassis, hot-swappable each slot
- MC-1000R with 2 power slots for redundant power support
- Fans bring the air-flow for system cooling, LED indicators for system and fan status
- Bay power isolation, ensure each bay is electrically isolated
- Support PLANET's ET, FT and GT series media converters
- Reduce the effort of converter maintenance and management
- 10-inch (MC-700), 19-inch (MC-1000R, MC-1500) rack-mountable



MC-700/1500



MC-1000R

Ordering Information

MC-700	7-Slot 10" Media Converter Chassis
MC-1500	15-Slot 19" Media Converter Chassis
MC-1000R	10-Slot Media Converter Chassis with redundant power

Available Redundant power supply

RPS-120W	120W Redundant Power Supply for MC-1000R
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Gigabit Ethernet Converters

GT-702/702S/705A/706A15/706B15/706A60/706B60

GT-70x is a Gigabit Ethernet Converter converting 1000Base-T to 1000Base-SX/LX. With auto-negotiation, the converter can automatically run at 1000Mbps full-duplex that offer 2Gbps bandwidth between two Gigabit Ethernet devices.

GT-70x, with SC/LC/WDM interface for 1000Base-SX and 1000Base-LX connector, provides the connectivity from 220 meters to 60 kilometers through Multi-Mode and Single Mode optic fiber.

- One-channel media conversion between 1000Base-T and 1000Base-SX/ LX
- SC interface for Multi-Mode SX/LX or Single Mode LX
- Single SC (WDM) interface for Single Mode LX
- Full duplex support for TP and fiber port
- 1000Base-SX interface for up to 550 meters (Multi-Mode fiber 50/125um) on GT-702, GT-705, GT-705A
- 1000Base-LX interface for up to 10/15/60 kilometers (single-mode fiber 9/125um) on GT-702S, GT-705A and GT-706A15/B15/A60/B60
- Can be installed on PLANET's MC-family media converter chassis
- Provide one SFP (Mini-GBIC) port supporting either Multi-Mode or single Mode fiber (GT-705A)



GT-702/702S

Ordering Information

GT-702	1000Base-T to 1000Base-SX Gigabit Ethernet Converter
GT-702S	1000Base-T to 1000Base-LX Gigabit Ethernet Converter (Single Mode)
GT-705A	1000Base-T to 1000Base-SX/LX Gigabit Ethernet Converter (Mini-GBIC, SFP)
GT-706A15	1000Base-T to 1000Base-LX (WDM) Gigabit Ethernet Converter-TX: 1310-15KM
GT-706B15	1000Base-T to 1000Base-LX (WDM) Gigabit Ethernet Converter-TX: 1550-15KM
GT-706A60	1000Base-T to 1000Base-LX (WDM) Gigabit Ethernet Converter-TX: 1310-60km
GT-706B60	1000Base-T to 1000Base-LX (WDM) Gigabit Ethernet Converter-TX: 1550-60km

Media Conversion

Fast Ethernet Media Converters

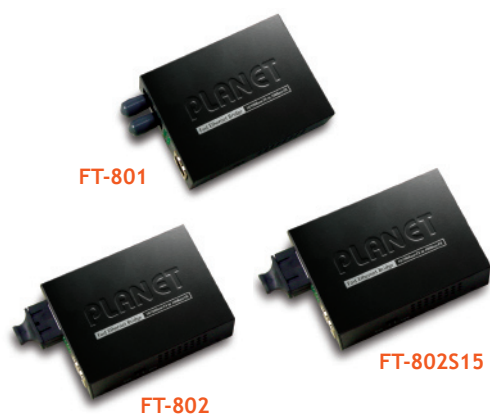
Fast Ethernet Bridge Media Converters

FT-801, FT-802, FT-803, FT-802S15/S35/S50

FT-80x is a Fast Ethernet media converter that with one Twisted-pair 10/100Base-TX, and one fiber-optic 100Base-FX connector. The fiber-optic interface includes ST, SC and MT-RJ.

With the bridging feature, FT-80x forwards the Fast Ethernet packets between TP and fiber base on the MAC address. Slided into the MC family chassis, the FT-80x converters can directly get the power from the chassis that provide centralized optic network maintenance and management.

- One-channel 10/100Base-TX to 100Base-FX, Fast Ethernet Converter
- Fiber-optic interface allows ST, SC, MT-RJ, Multi-Mode, Single Mode connectors
- Auto-negotiation on Twisted-pair port for 10Base-T, 100Base-TX, half-duplex, full-duplex operation
- Rear DIP switch for half-duplex, full-duplex selection on Fiber-optic port
- Up to 100 kilometers support
- Can be installed on PLANET's MC-family media converter chassis
- LED indicators for TP, FX port diagnose
- Store and Forward switch mechanism
- Provide LFP (Link Fault Pass-through) mode selection



Fast Ethernet Converters

FT-701B/702B, FT-703/704, FT-702S15/S35/S50, FT-706A15/B15

The Fast Ethernet Converter FT-70x is a media converter that with one Twisted-pair Fast Ethernet, and one fiber-optic 100Base-FX connector. The fiber-optic interface includes ST, SC, MT-RJ, VF-45 and WDM (Bi-di SC interface).

Supports auto-negotiation, the TP port of the FT-70x can run in 100Base-TX half-duplex or full-duplex automatically. Slided into the MC family chassis, the FT-70x converters can directly get the power from the chassis that provide centralized optic network maintenance and management.

- One-channel 100Base-TX to 100Base-FX, Fast Ethernet Converter
- Fiber-optic interface allows ST, SC, MT-RJ, VF-45, WDM, Multi-Mode, Single Mode connectors
- Up to 100 kilometers support
- Auto-Negotiation support on TP port for converter duplex mode selection automatically
- Can be installed on PLANET's MC-family media converter chassis
- LED indicators for TP, FX port diagnose
- Choice of WDM model for single wire fiber installation



Ordering Information	
FT-801	10/100Base-TX to 100Base-FX (ST) Bridge Media Converter
FT-802	10/100Base-TX to 100Base-FX (SC) Bridge Media Converter
FT-803	10/100Base-TX to 100Base-FX (MT-RJ) Bridge Media Converter
FT-802S15	10/100Base-TX to 100Base-FX (SC) Single Mode Bridge Fiber Converter-15KM
FT-802S35	10/100Base-TX to 100Base-FX (SC) Single Mode Bridge Fiber Converter-35KM
FT-802S50	10/100Base-TX to 100Base-FX (SC) Single Mode Bridge Fiber Converter-50KM
FT-806A20	10/100Base-TX to 100Base-FX (WDM) Bi-directional Fiber Converter-1310nm-20KM
FT-806B20	10/100Base-TX to 100Base-FX (WDM) Bi-directional Fiber Converter-1550nm-20KM

Remark: Distance up to 100km available upon request.

Ordering Information	
FT-701B	100Base-TX to 100Base-FX (ST) Multi-Mode Fiber Converter
FT-702B	100Base-TX to 100Base-FX (SC) Multi-Mode Fiber Converter
FT-703	100Base-TX to 100Base-FX (MT-RJ) Multi-Mode Converter
FT-704	100Base-TX to 100Base-FX (VF-45) Multi-Mode Converter
FT-702S15	100Base-TX to 100Base-FX (SC) Single Mode Fiber Converter-15KM
FT-702S35	100Base-TX to 100Base-FX (SC) Single Mode Fiber Converter-35KM
FT-702S50	100Base-TX to 100Base-FX (SC) Single Mode Fiber Converter-50KM
FT-706A15	100Base-TX to 100Base-FX (WDM) Bi-directional Fiber Converter-1310nm-15KM
FT-706B15	100Base-TX to 100Base-FX (WDM) Bi-directional Fiber Converter-1550nm-15KM

Remark: Distance up to 100km available upon request.