



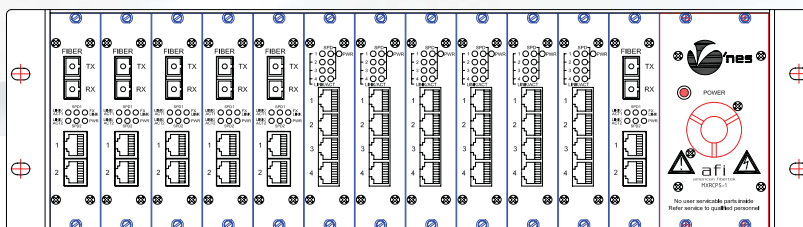
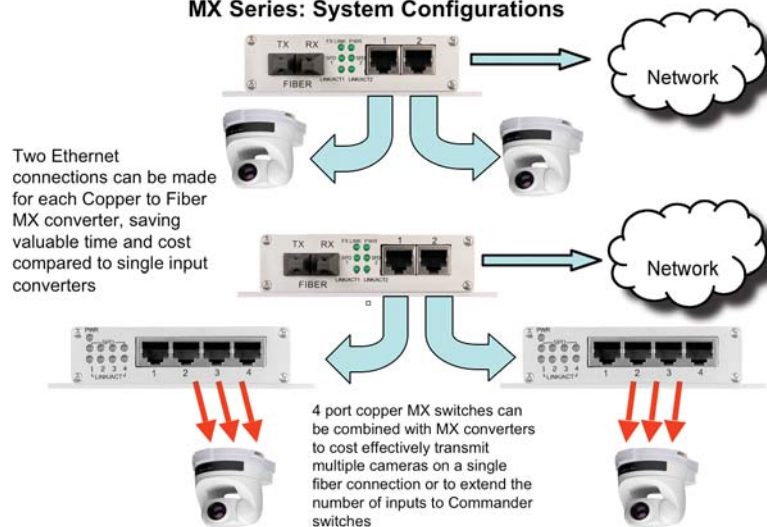
MULTI-PORT MEDIA CONVERTORS FEATURES:

- Low cost copper to fiber solutions perfect for long distance reliable IP transmission.
- Cost effective 1 Gigabyte switch solution to meet the needs of high data traffic and Megapixel cameras.
- Easy to design multiple port copper to fiber solutions.

American Fibertek's V'nes MX Media Converter series enable network managers to connect 10/100 Fast Ethernet or 1000 Mbps Gig E twisted pair to fiber optic cabling for wide bandwidth cost effective short or long distance transmission. Multiple port design reduces installation and cable allowing for multiple inputs to run on a single path. The Media Converter MX series provides optional single fiber WDM technology combining dual fiber cable into single cable for greater cost savings. Front panel LEDs provide easy status checking along with Link Fault Pass Through and MDI/MDI-X for easy installation. When combined with Commander series switch products, the MX provides easy, and cost effective solutions to convert any number of ports from twisted pair to fiber.

The MX product line is available as standard alone modules that can also be directly inserted into a modular rack and SR-20 compatible rack modular cards.

MX Series: System Configurations



The MXR-1 rack holds up to 12 MX modules with a single power supply and 10 MX modules when a secondary back up power supply is used.

	MX2-MM-FX-SC/MXR2-MM-FX-SC Multimode version MX2-SM-FX-SC/MXR2-SM-FX-SC Single mode version	MX4-100TX/MXR4-100TX	MX2-MM-LX-SC/MXR2-MM-LX-SC Multimode version MX2-SM-LX-SC/MXR2-SM-LX-SC Single mode version	MX4-1000T/MXR4-1000T
Standards	IEEE: 802.3 802.3u	IEEE: 802.3 802.3u	IEEE: 802.3, 802.3ab 1000 BaseT, 802.3z 1000BaseT	IEEE 802.3u, 802.3ab
Data Port	2 x 10/100Mbps RJ45 1 x 10/100Mbps Dual Fiber SC auto configuration, auto negotiation	4 X 10/100Mbps RJ45, auto configuration, auto negotiation	2 x 10/100/1000Mbps RJ45 1 x 10/100/1000Mbps Dual Fiber SC auto configuration, auto negotiation	4 x 10/100/1000Mbps RJ45, auto configuration, auto negotiation
Fiber/optical connector	Dual fiber SC		Dual fiber SC	
Switching mechanism	Store & forward switching mechanism	Store & forward switching mechanism	Store & forward switching mechanism	Store & forward switching mechanism
Wavelength	1310nm		1310nm	
Ethernet data rate	Full Duplex: 20Mbps or 200Mbps Half Duplex: 10Mbps or 100Mbps	Full Duplex 20Mbps or 200Mbps Half Duplex 10Mbps or 100Mbps	Full Duplex 200Mbps Half Duplex 100Mbps	Full Duplex 200Mbps Half Duplex 100Mbps
UTP	Cat. 5 UTP Cable	Cat. 5 UTP Cable	Cat. 5 UTP Cable	Cat. 5 UTP Cable
Fiber cable	50/125, 62.5/125(multimode) 9/125 (single-mode)		50/125, 62.5/125,(multimode) 9/125 (single-mode)	
Maximum distance	100 m (10Base-T) UTP Cat. 3/4/5 cable,RJ-45 connector) 2 Km (100Base-FX) Multi-mode fiber, SC connector) 20 Km(100Base-FX) Single mode fiber, SC connector)	100 m (100Base-TX) UTP Cat. 3/4/5 cable,RJ-45 connector)	100 m (1000Base-T UTP Cat. 3/4/5 cable,RJ-45 connector) 500m (100Base-FX Multi-mode fiber (1000Base-LX SC connector) 30 Km(100Base-FX Singlemode fiber (1000Base-LX) SC connector)	100 m (1000Base-T UTP Cat. 3/4/5 cable with RJ-45 connector)
MAC Table	2K	2K	2K	2K
Forward and Filter Rate (64 Bytes)	14,881pps(10Base-T) 148,810pps(100Base-T)	14,881pps(10Base-T) 148,810pps(100Base-T)	1,488,100pps(1000Base-T)	1,488,100pps(1000Base-T)
LED	FX Link , Link/Act1, SPD1, Link/Act2, SPD2,Power	Link/Act1, SPD1, Link/Act2, SPD2, Link/Act3, SPD3, Link/Act4, SPD4, Power	FX Link, Link/Act1, SPD1, Link/Act2, SPD2,Power	Link/Act1, SPD1, Link/Act2, SPD2, Link/Act3, SPD3, Link/Act4, SPD4, Power
LED Actions	FX Link-red , blinking when data active Link/Act-red, blinking when data active SPD-10Mbps/not lit, 100Mbps/green Power-red	Link/Act-green, blinking when data active SPD-10Mbps/amber, 100Mbps/green Power-green	FX Link-red , blinking when data active Link/Act-red, blinking when data active SPD-10Mbps/not lit, 100Mbps/amber, 1000Mbps/green Power-red	Link/Act-red, blinking when data active SPD-10Mbps/not lit, 100Mbps/amber, 1000Mbps/green Power-red
Power	DC 5V, 0.5A Max	DC 5V, 0.25A Max	DC 5V, 0.8A Max	DC 5V, 0.5A Max
Weight		Standalone: 0.3kg, (0.7pds)	Rack module: 0.3Kg (0.7pds)	
Dimensions		Standalone: 102mm (4") X 122mm (4.8")X 26mm (1") (DxWxH)	Rack module: 102mm (4") X 130mm (4.8")X 30mm (1") (DxWxH)	
Temperature		Operating: -20°C ~ +55°C (-4F ~ +131F)		
Humidity		0%~95%RH, non-condensing		
Certifications		RoHS, FCC: Part 15 Class A CE: EN55022 Class A, EN55024		

MX2-MM-FX-SC/MXR2-MM-FX-SC Multimode version MX2-SM-FX-SC/MXR2-SM-FX-SC Single mode version

- Converts 10 Base-T /100Base-TX to 100Base-FX.
- Distances up to 2km (Multi-mode) or 20Km (Single-mode).
- Comply with 10BaseT and 802.3u 100Base-T, FX standard.
- Store and forward switching mechanism.
- Auto-Negotiation
- MDI/MDIX Auto-Crossover supported.
- LED Indication (FX Link , Link/Act1, SPD1, Link/Act2, SPD2,Power)

MX4-100TX/MXR4-100TX

- Four 10 base-T/100 Base-TX Mbps auto configuration port
- Comply with IEEE 802.3u 100Base-T standard.
- Store and forward switching mechanism.
- Auto-Negotiation
- MDI/MDIX Auto-Crossover supported.
- LED Indication (Link/Act, SPD, Power)

MX2-MM-LX-SC/MXR2-MM-LX-SC Multimode version MX2-SM-LX-SC/MXR2-SM-LX-SC Single mode version

- Converts 10 Base-T/100 Base-TX /1000Base-T to 1000Base-LX.
 - Distances up to 500m (Multi-mode) or 30Km (Single-mode).
 - Comply with 802.3u 100 BaseT, 802.3ab 1000 BaseT, 802.3z 1000BaseT- LX standard.
 - Store and forward switching mechanism.
 - Auto-Negotiation
 - MDI/MDIX Auto-Crossover supported.
 - LED Indication (LX Link , Link/Act1, SPD1, Link/Act2, SPD2,Power)
- #### MX4-1000T/MXR4-1000T
- Four 10/100/1000Mbps auto configuration port
 - Comply with IEEE 802.3 10BaseT, 802.3u 100 BaseT, 802.3ab 1000 BaseT,
 - Store and forward switching mechanism.
 - Auto-Negotiation
 - MDI/MDIX Auto-Crossover supported.
 - LED Indication (Link/Act, SPD, Power)

MXRCS-1 & MXRC-1 Specifications

MXRCS-1: Power supply specifications	
Input:	90-264VAC, 47-63HZ
Output:	DC5V, Max 25A, 100W
Working temp:	-20° to +70°C
Working humidity:	20 to 90% RH, non-condensing
Storage temp., humidity:	-40° to +85°C, 10-95% RH
Dimension:	65.3mm x 166.5mm x 130mm (W x D x H)
MXRC-1 Rack Specifications	
Capacity:	12 slots available for plug-in modules
Dimension:	484mm x 192mm x 134mm (W x D x H)

Ethernet to Fiber Network Media Convertors

MX2-MM-FX-SC*	Fast Ethernet Fiber Optic Transceiver Module, 10/100/Base-TX 1300nm optics, (2) RJ 45 copper ports & dual SC Fiber TX/RX Ports Multimode transmission dist. 2km
MXR2-MM-FX-SC*	Fast Ethernet Fiber Optic Data Transceiver Rack Card, 10/100/Base-TX 1300nm optics, (2) RJ 45 copper ports & dual SC Fiber TX/RX Ports Multimode transmission dist. 2km
MX2-SM-FX-SC*	Fast Ethernet Fiber Optic Data Transceiver Module, 10/100/Base-TX 1300nm optics, (2)RJ 45 copper ports & dual SC Fiber TX/RX Ports Singlemode transmission dist. 20km
MXR2-SM-FX-SC*	Fast Ethernet Fiber Optic Data Transceiver Rack Card, 10 Base-T, 100 Base-TX, 1000 Base-T 1300nm optics (2)RJ 45 copper ports & dual SC Fiber TX/RX Ports Singlemode transmission dist. 20km
MX2-MM-LX-SC*	Gigabit Fiber Optic Data Transceiver Module, 10 Base-T, 100 Base-TX, 1000 Base-T TX 1300nm optics, (2) RJ45 copper ports & dual SC Fiber TX/RX Ports Multimode dist. 500m
MXR2-MM-LX-SC*	Gigabit Fiber Optic Data Transceiver Rack Card, 10 Base-T, 100 Base-TX, 1000 Base-T 1300nm optics, (2) RJ45 copper ports & dual SC Fiber TX/RX Ports Multimode dist. 500m
MX2-SM-LX-SC*	Gigabit Fiber Optic Data Transceiver Module, 10 Base-T, 100 Base-TX, 1000 Base-T 1300nm optics, (2) RJ45 copper ports & dual SC Fiber TX/RX Ports Singlemode dist. 20km
MXR2-SM-LX-SC*	Gigabit Fiber Optic Data Transceiver Rack Card, 10 Base-T, 100 Base-TX, 1000 Base-T 1300nm optics, (2) RJ45 copper ports & dual SC Fiber TX/RX Ports Singlemode dist. 20km

Units are delivered with SC type connectors, ST or FC connectors can be ordered by changing the "SC" to the appropriate abbreviation.
*Ex. MX2-MM-FX-ST would be delivered with "ST" connectors. Consult factory for availability.

MX Series Multiport Network Switch

MX4-100TX	Fast Ethernet Four Port Data Transceiver Module, 10/100/Base-TX
MXR4-100TX	Fast Ethernet Four Port Data Transceiver Rack Card, 10/100/Base-TX
MX4-1000T	Gigabit Four Port Data Transceiver Module, 10/100/1000/Base-T
MXR4-1000T	Gigabit Four Port Data Transceiver Rack Card, 10/100/1000/Base-T

Fiber units can also be ordered as single fiber bi-directional systems. Consult Factory for Availability.

ACCESSORIES:	
MXRC-1	Rack for MXR units including Power Supply
MXRCS-1	Power Supply for MXRC-1 Subrack
MRC	Module to Rack Card Conversion Kit