FIBERROAD

Web Smart Fiber Media Converter

Product Data Sheet

Web Smart Fiber Media Converter

FR-2205 is a Web Smart, OAM/IP managed device functioning as both a Gigabit Ethernet Switch and Media Converter. It bridges 10/100/1000Base-T copper ports with 1000Base-X fiber connectivity (using SFP-LC modules). Its key feature is IEEE 802.3ah OAM support, enabling easy port control and configuration through a web browser over the network. Available for multi-mode, single-mode, or BiDi (single-fiber bidirectional) operation, it automatically negotiates duplex settings (IEEE 802.3u). Comprehensive LED indicators show power, UTP speed/link/duplex, and FX link/duplex status.

Product Features

- 1x10/100/1000Base-T to 100/1000Base-X SFP Converter
- Auto-Cross over for MDI/MDIX in TP port
- Auto-Negotiation or manual mode in TP port
- Supports flow control Enable or Disable
- Supports Jumbo Frame 9K Packet
- Ingress/Egress bandwidth control
- Broadcast / Multicast / Unicast storm control
- Supports in-band IEEE802.3ah management
- Firmware upgrade via Web (Centralized Management Only)
- Dying gasp(Remote power failure detection on standalone)
- Supports Link Fault Pass-Through(LFPT)Function
- Support Auto Laser Shutdown(ALS) Function(Centralized Management Only)
- Support SNMP, Web Management

Hardware Specifications	
Product	FR-2205
Copper Ports	1x10/100/1000BASE-T RJ45 Auto-MDI/MDI-X
Fiber Ports	1x1000BASE-X Optical Fiber Port (SFP or 1x9 Optical Module)
Copper Maximum Distance	100m
Fiber Distance and Wavelength	550m(850nm) 20/40/60km(1310nm) 20/40/60km(1310nm/1550nm) 80/100/120km(1550nm)
Enclosure	Meta Case
Installation	Desktop and Wall-mount(with additional Wall Mounting Bracket)
Dimension	90mm(D)×60mm(W)×20mm(H)
Weight	120g
Switching	
Switch Architecture	Store-and-Forward
Maximum Packet Length	9K bytes
Flow Control	IEEE 802.3x pause frame for full duplex, Back pressure for half duplex
Power Supply	
Number of inputs	1
Input Voltage	DC5-12V
Power Consumption	5 Watts Max (Depend on Optical Module)
Environmental	
Operating Temperature	0℃ to +50℃ (32 to +122 ℉)
Storage Temperature	-20℃ to +70℃ (-4 to 158 ℉)
Operating Humidity	5%~90% (non-condensing)
MTBF	100,819 hours @ Telcordia SR-332 Standard 25℃
Heat Dissipation	10 BTU/h (No SFP)
Cooling	Passive Cooling, Fanless Design
Noise Level	0 dBA
LED Indicators	
PWR	ON: Power is being supplied ; OFF: Power is not being supplied
FX/LNK	ON: Port connection is active; Blinking: Data Transmitted; OFF: Port connection is not active
TP/LNK	ON: Port connection is active; Blinking: Data Transmitted; OFF: Port connection is not active
SPD	ON: Port is operating at 1000 Mb/s, OFF: Port is operating at 10/100 Mb/s
DIP Switch	
#1 LFP	ON: LFP enable, OFF: LFP disable
#2 Remote	ON: Local side, OFF: Remote Side
#3 RJ45 Speed	ON:10/100M, OFF:10/100/1000M
#4 Reset	ON: Factory Reset

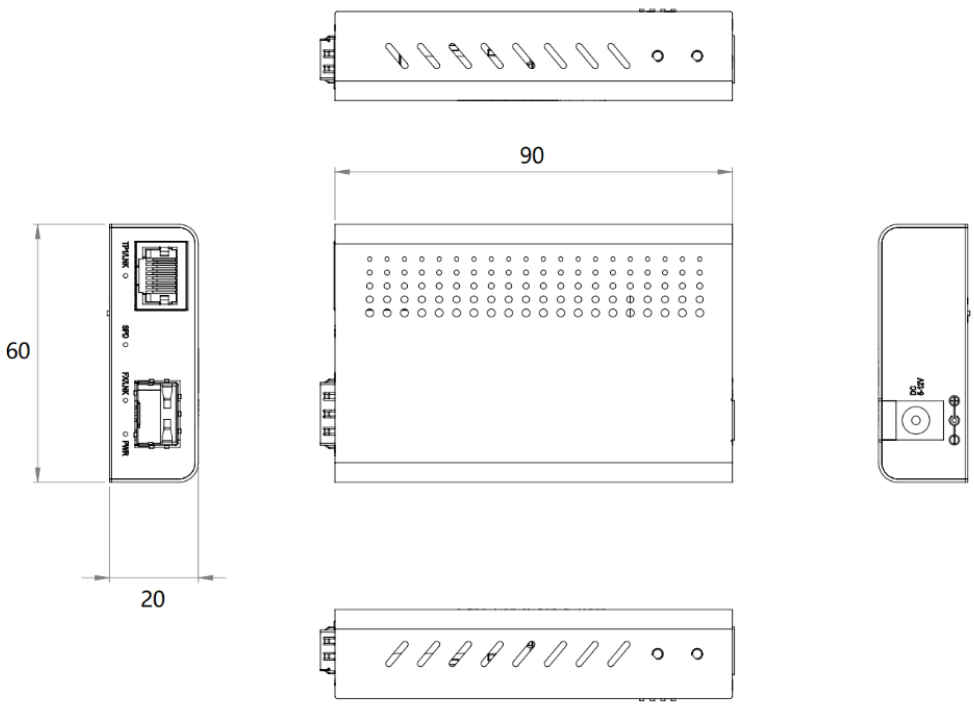
Package Contents	
Device	Mini Fiber Media Converter
Power Supply	5-12VDC Power Supply(with region specific plug)
Documentation	User Manual

Accessories(Sold Separately)

SFP Optical Transceiver	
FRSX-1L311C	1.25Gb/s 1310nm 10km SFP
FRSX-1L341C	1.25Gb/s 1310nm 40km SFP
FRSX-1L5X1C	1.25Gb/s 1550nm 80/100km SFP
FRSX-1L3523/5323C	1.25Gb/s 1310nm/1550nm 20km BiDi SFP

Armored Fiber Patch Cable / LAN Cable	
FRPC-A-LC	Armored LSZH LC UPC to LC UPC Duplex OS2 single mode 7.0mm for Outdoor Application , 1-50m
FRLC-A-CAT6	Armored Cat6 Snagless shielded(SFTP) Ethernet Network Patch Cable, 26AWG, 1000Base-T, 0.5m – 3m
FRLC-A-CAT6A	Armored Cat6a Snagless shielded(SFTP) Ethernet Network Patch Cable, 26AWG, 10GBase-T, 10.7m(35ft)

Dimensions Unit: mm



Precautions

To avoid damage to the equipment and personal injury caused by improper use, please observe the following precautions:

- Keep the power off during installation, wear an anti-static wrist, and ensure that the anti-static wrist is in good contact with the skin to avoid potential safety hazards.
- The Switch/Media Converter can work normally under the correct power supply. Please confirm that the power supply voltage matches the voltage indicated by the Switch/Media Converter.
- Before powering on the Switch/Media Converter, please make sure that the power circuit is not overloaded, so as not to affect the normal operation of the Switch/Media Converter and even cause unnecessary damage.
- To avoid the risk of electric shock, do not open the case while the Switch/Media Converter is working, even if it is not charged, do not open it yourself.
- Before cleaning the Switch/Media Converter, pull out the power plug of the Switch/Media Converter. Do not wipe with a wet cloth. Do not use liquid to clean it.
- The equipment installed in the rack is generally from bottom to top to avoid overload installation.
- Avoid placing other heavy objects on the surface of the Switch/Media Converter to avoid accidents.

Order Information

Model	LAN Port	Fiber Optical Port	Fiber Port Connector Option	Input Power
FR-2201	1x 10/100Base-TX	1x 100Base-X	LC(SFP) or SC,ST,FC (1x9)	DC 5-12V
FR-2203	1x 10/100/1000Base-T	1x 1000Base-X	LC(SFP) or SC,ST,FC (1x9)	DC 5-12V
FR-2206	2x 10/100/1000Base-T	1x 1000Base-X	LC(SFP)	DC 5-12V
FR-2222	1x10/100/1000M/ 2.5G/5G/10G	1x 1.25G/2.5G/5G /10G SFP/SFP+	LC(SFP+)	DC 5-12V
FR-2212	—	100M/1.25G/2.5G/ 8.5G/10G	LC(SFP+)	DC 5-12V
FR-2205	1x 10/100/1000Base-T	1x 1000Base-X	LC(SFP) or SC,ST,FC (1x9)	DC 5-12V
FR-2000-AA	12 Slots Media Converter Chassis with Dual AC Power Supply			AC100V-240V

The information in this document is subject to change without notice. Fiberroad has made all effects to ensure the accuracy of the information, but all information in this document does not constitute any kind of warranty. Visit our website for the most up-to-date product information

For more information

For more information about Fiberroad Fiber Media Converter series products, Visit https://www.fiberroad.com or contact your local account representative.