

MMC Series

MMC-X2**10G Multi-rate OAM/IP Media Converter****Main Features**

- L2 Switch Based Media Converter
- L2 Control Protocol Transparency
- 10240 bytes MTU(Jumbo Frames)
- Support throughput at 100% constant bandwidth
- Line rate performance from 64 Bytes to 9600 Bytes
- 802.1Q tag VLAN support
- 802.1ad Double Tag VLAN support (Q-in-Q)
- OAM Connectivity Fault Management(CFM)
- RFD or Link Loss Forwarding (LLF/ TLPT)
- Auto Laser Shutdown
- Dying gasp (Remote power failure detection)
- Ingress/Egress Bandwidth control per port,Bandwidth Limitation with 1G Granularity
- Remote in-band,Configurable VLAN/IP, ICMP supported
- Support Loopback
- Digital Diagnostic (DDM) SFP support
- Per port RMON counters
- Learning MAC
- Hardware RESET button on the front
- Support firmware upgrade via GUI, TFTP
- Telnet Menu, Web-Based GUI, SNMP and OAM management
- Local console port support optional
- Pluggable service board
- Dual redundancy AC/DC power supplies

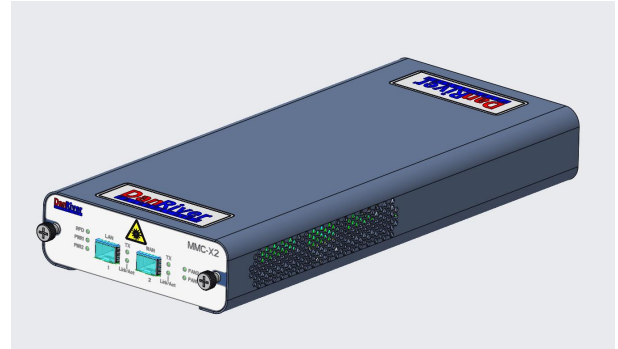


Figure 1: 10G Media Converter

Benefits

- Standalone housing saving space
- Local console for configuration and maintenance in the field
- Flexible pluggable board
- Bandwidth Limitation with 1G Granularity, Guaranteed SLA
- Remote in-band OAM Management
- Transparent for user data

Typical Applications

- Edge Cloud access
- Enterprise private line
- Full Ethernet Demarcation
- Single mode and multi-mode converter
- BIDI and dual ports converter
- Distance extension

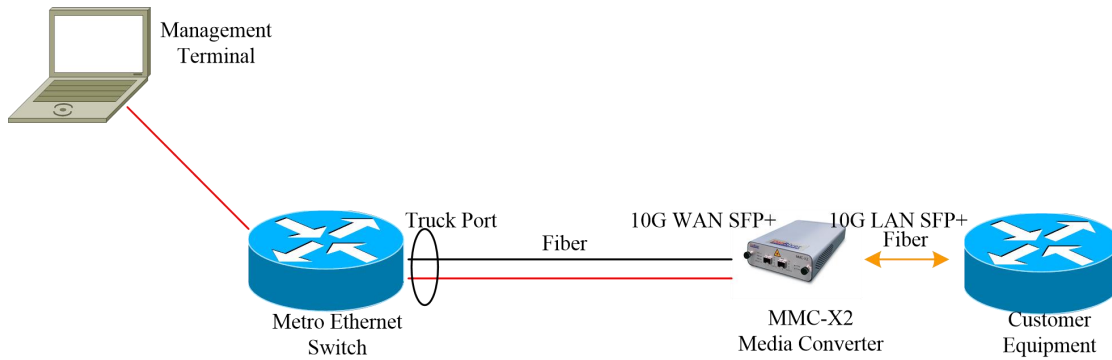


Figure 2 Single end Application

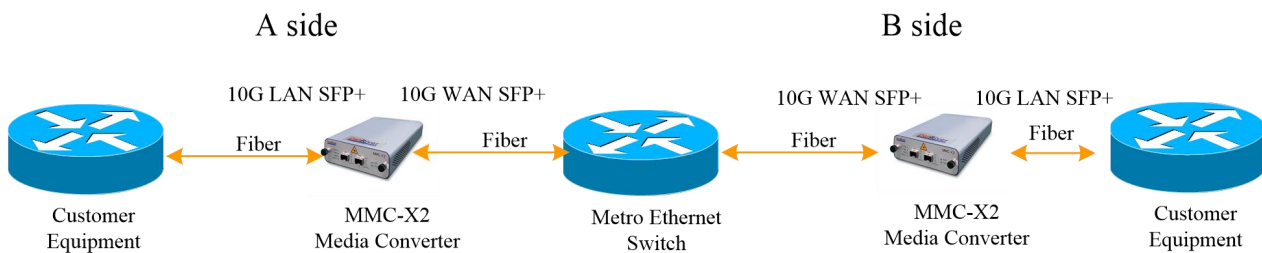


Figure 3 end to end Application

Specifications

Service Card	
Media Converter	10GBase-X to 10GBase-X
Plug-able	Support
Data Rate	GE to 10G Multi-rate
Ports	2 x SFP+/SFP (LAN Port and WAN Port)
Supported Transceiver module	Optical transceiver SFP+/SFP and Copper SFP transceiver
Wavelength	Multi-mode, Single mode, BiDi, CWDM and DWDM
Media Type	Multi-mode fiber, Single mode fiber, Twisted pair CAT5e/CAT6a/CAT7 cable
Connectors	Dual or Single LC, RJ45
Distance	Optical transceiver depends on SFP+/SFP, 30m at 10GBase-T over CAT6a
Standards	IEEE 802.3 IEEE 802.3z IEEE 802.3ab IEEE 802.3ae IEEE 802.1D IEEE 802.1Q IEEE 802.1ad IEEE 802.1p
Packet buffer	4M bytes
Management	Telnet Menu, HTTP, SNMP and in-band OAM management
Management Port	Copper RJ-45 1000Base-T SFP to WAN Port for Remote management via IP Local Console on the rear panel of housing(Specified)
MAC Table Entries	32k
Cooling system	Cooling Fan, Left and right ventilation
Indicators	LED (PWR, FAN, Fiber Link, RFD)

Reset Button	DEFAULT
Housing	
Dimensions(WxDxH mm)	135x240x44
Weight (kg)	1.4(Housing with service card, Power cord)
Environment	
Operating Temperature	0°C to 50°C
Storage	-10°C to 70°C
Humidity	10% ~ 90% non condensing
Power Supply	
Power Input	Dual Redundancy Power supplies,AC:85V ~ 264VAC, Frequency Range: 47 ~ 63Hz or DC power: -36~-72VDC
Power Consumption	< 30W (full load)