

## MMC Series

**MMC-X2R board****1RU Chassis mountable****10G Multi-rate OAM/IP Media Converter****Main Features**

- Support throughput at 100% constant bandwidth
- L2 Switch Based Media Converter
- L2 Control Protocol Transparency
- 10240 bytes MTU(Jumbo Frames)
- 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/ LLPT)
- LLCf(Link Loss Carry Forward)
- 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
- Plug-in service board

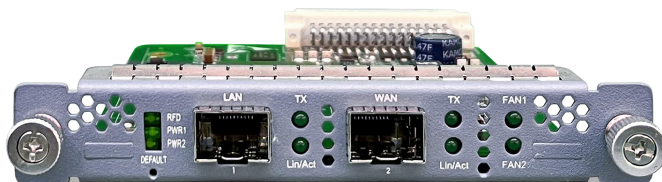


Figure 1: 10G Media Converter card

**Benefits**

- Plug in 1RU 6-slot chassis saving space and cost
- 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**

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

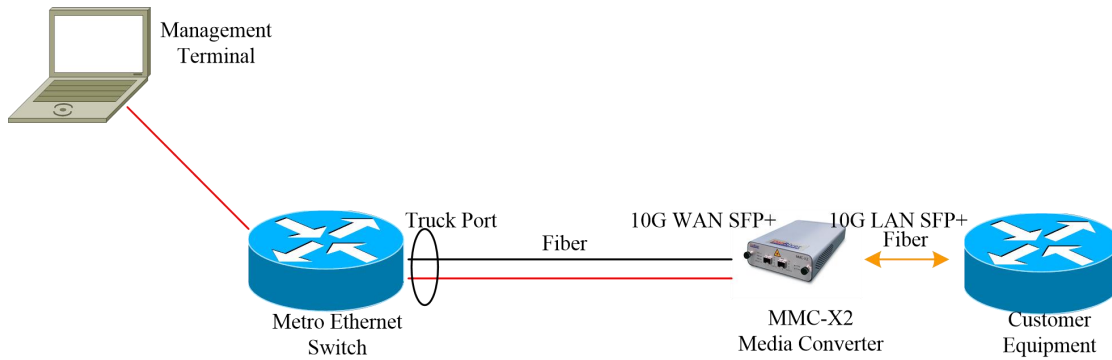


Figure 2 Single end Application

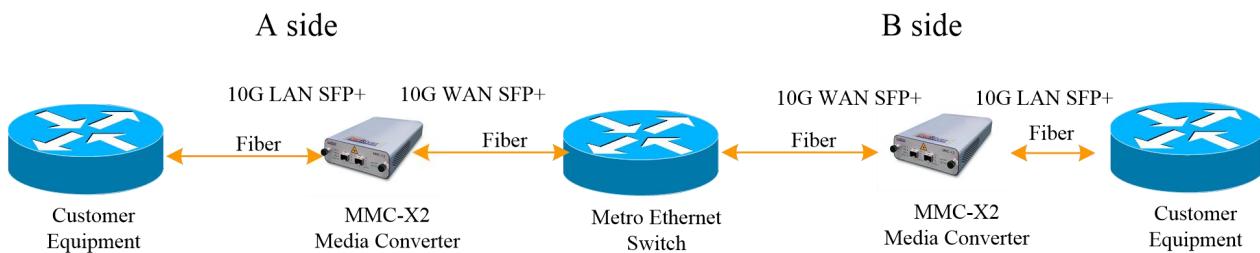


Figure 3 end to end Application

## Specifications

Service Card	
Media Converter	10GBase-X to 10GBase-X
Plug-able	Support
Data Rate	GE to 10G Multi-rate
Throughput	Support 100% constant bandwidth
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 4M bytes
Packet buffer	Telnet Menu, HTTP, SNMP and in-band OAM management
Management	Copper RJ-45 1000Base-T SFP to WAN Port for Remote management via IP
Management Port	Local Console on the rear panel of housing(Specified)
MAC Table Entries	32k
Indicators	LED (PWR,FAN, Fiber Link, RFD)

Reset Button	DEFAULT
<b>Physical feature</b>	
Dimensions(WxDxH mm)	100x140x20
Weight (kg)	0.4
Package option	Plug-in card
Platform	CTX6600A
Slot assignment	Any slot
<b>Environment</b>	
Operating Temperature	0°C to 50°C
Storage	-10°C to 70°C
Humidity	10% ~ 90% non condensing
<b>Power Supply</b>	
Power Input	Dual Redundancy Power supplies,+5V
Power Consumption	< 12W (full load)
<b>Compliance</b>	
Standards	RoHS 5/6