

MMC Series

MMC-X2R board**1RU Chassis mountable****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/ 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

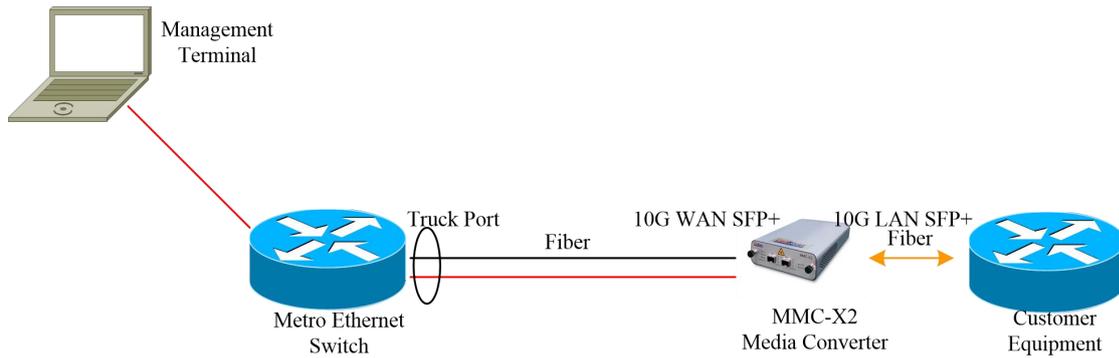


Figure 2 Single end Application

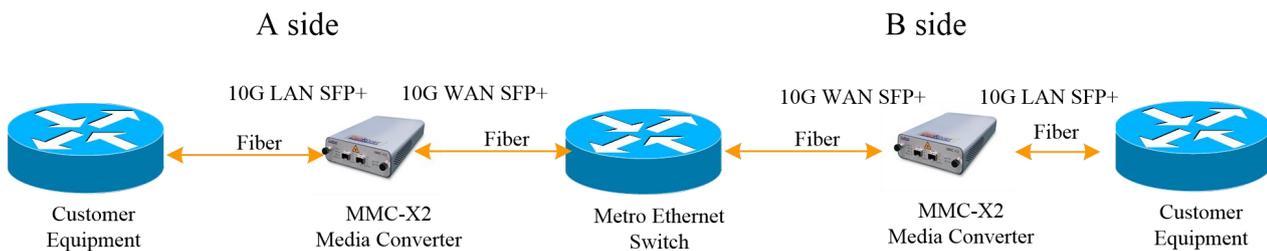


Figure 3 end to end Application

Specifications

| Service Card | |
|------------------------------|---|
| Media Converter | 10GBase-X to 10GBase-X |
| Plug-able | Support |
| Data Rate | GE to 10G Multi-rate |
| 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 |
| Indicators | LED (PWR,FAN, Fiber Link, RFD) |
| Reset Button | DEFAULT |

| | |
|-------------------------|------------------------------------|
| Physical feature | |
| Dimensions(WxDxH mm) | 100x140x20 |
| Weight (kg) | 0.4 |
| Package option | Plug-in card |
| Platform | CTX6600A |
| Slot assignment | Any slot |
| 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,+5V |
| Power Consumption | < 12W (full load) |
| Compliance | |
| Standards | RoHS 5/6 |