Vi-Link

# Fiber Optic Media Converter 10/100M SC

# MC100

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# **MC** Series

# **Overview**

The MC100 Web Management Media Converter series is designed to operate in high temperature NEMA environment with 1 x 10/100Mbps copper port and 1 x 100Base Fiber Optic Fast Ethernet Port. The converter mediates between a 10/100M Base-TX segment and a 100Base-FX segment. It is primarily designed for large, higher speed/bandwidth demanding workgroups that require expansion of the Ethernet network. It can extend the conventional 10M Ethernet or 100M Fast Ethernet to 20Km~100Km via the Gigabit Ethernet Fiber-optical Line. It is high-performance, cost effective and flexible solutions for a wide range of applications in the field of LAN campus network.

With its built-in Web-based management, the MC100 offers an easy-to-use and configuration facility, via the WEB interface, it can be programmed for basic management functions such as per port speed duplex settings, Port Trunking, VLAN, Port Mirroring, network security authentication and misc configurations. Additionally, the firmware includes advanced features such as IGMP snooping, QoS (Quality of Service), broadcast storm and bandwidth control, to enhance bandwidth utilization. The extended temperature capability for meeting NEMA specifications satisfies very critical applications requiring high quality data transmission performance with high reliability. Applications include ITS Intelligent Traffic System, Metro Operation, HDTV Broadcasting System, IP cameras Surveillance, Homeland Security, Utility Management, Premise Networks, Military Hardened applications or anything requiring high speed Ethernet Network performance.



#### Features

- 1 x 100M FX Fiber Port
- 1 x 10/100M TX Ethernet Ports
- Support 802.1Q 4K VLAN, port based, protocol based VLAN, Generic Attribute Registration Protocol (GARP), GARP VLAN Registration Protocol (GVRP)
- Static and Dynamic port aggregation
- Port rate limit, broadcast storm control, port mirroring, rich Quality of Service (QoS) features
- +5 VDC Power Adapter

# **Applications**

- ITS Traffic Applications
- SCADA Networks
- Metro Networks
- Gas & Oil Fields Monitoring Applications
- Railroad Networks
- Military Applications
- Data Acquisition Applications

### **Order Information**

| Model     | Descriptions   |  |
|-----------|--|--|
| MC100SC03 | Ethernet Media Converter, 1 x 100M-FX SC, SM 1310nm, 50 Km, 1 x 10/100M-TX RJ45 , +5 VDC |  |

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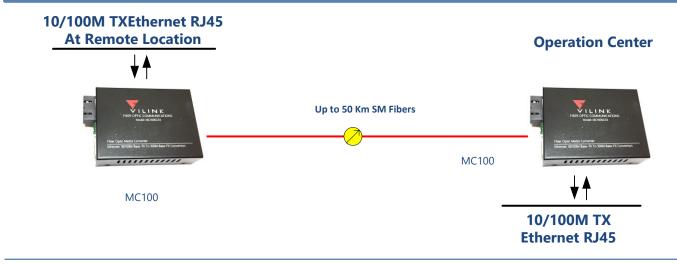
# Specifications

#### System:

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|--------------------|---|--|--|--|
| Error Rate         | 1 in 10 <sup>12</sup> or Better   |  |  |  |
| Network Standard   | IEEE 802.3 10BASE-T<br>IEEE 802.3u 100BASE-TX<br>IEEE 802.3z FX<br>IEEE 802.3x Flow Control<br>IEEE 802.3ad Port trunk with LACP<br>IEEE 802.3w RSTP<br>IEEE 802.1Q VLAN Tagging  |  |  |  |
| Indicators         | PWR, TP, FO, 100M   |  |  |  |
| Ports              | 1 x 10/100Base-T<br>1x 100Base- FX  |  |  |  |
| Frame Flow Control | Full Duplex Mode  |  |  |  |
| Frame size         | 16K Bytes   |  |  |  |
| Jumbo Frame        | 9000 Bytes  |  |  |  |
| Layer 2 Management | Store-and Forward<br>Remote Monitoring (RMON)<br>Far-end Fault Indication (FEFI)<br>Link Fault Pass Through (LFP)<br>Auto Recovery<br>Remote Management and Set Up<br>Manual IP Address Setting / DHCP<br>Loopback, Broadcast, Multicast,<br>Unicast storm control<br>Speed Duplex Mode Configuration<br>Bandwidth Control on TP/FX |  |  |  |
| Physical:          |   |  |  |  |
| Dimension          | 6.5" x 5.5" x 1.5"  |  |  |  |
| Power              | +24 VDC @1 Amp  |  |  |  |
|                    |   |  |  |  |

| Fiber Interface:     |  |  |  |  |
|----------------------|--|--|--|--|
| Port                 | 1 x 100Base-FX   |  |  |  |
| Data Rate            | 100 Mbps   |  |  |  |
| Connector            | SC   |  |  |  |
| Distances            | 2KM@850MM, 10KM@1310MM<br>40KM@1310SM, 100KM@1550SM  |  |  |  |
| TX Interface:        |  |  |  |  |
| TX Port              | 1 x 10/100Base-TX<br>Auto-Negotiation MDI/MDIX   |  |  |  |
| Data Rate            | 10/100 Mbps  |  |  |  |
| Connector            | RJ45   |  |  |  |
| Transmission Mode    | Half/Full Duplex   |  |  |  |
| Network Management : |  |  |  |  |
| Interface            | Web Browser, SNMPv1, v2c Monitor   |  |  |  |
| Port Configuration   | Port enable, Auto-Negotiation, Full<br>and Half Duplex mode, Flow Control<br>Enable, Bandwidth Control |  |  |  |
| VLAN                 | 16 IEEE 802.1Q VLAN / Q-in-Q VLAN  |  |  |  |
| Link Aggregation     | Supports IEEE 802.3ad LACP   |  |  |  |
| QoS                  | 802.1p Priority, DSCP field in IP  |  |  |  |
| IGMP Snooping        | IGMP (v1/v2) Snooping, up to 64<br>Multicast groups  |  |  |  |
| SNMP MIBs            | RFC-1213 MIB-2, RFC-1573 MIB<br>RFC-2819 RMON MIB (Group 1)  |  |  |  |
| Environment:         |  |  |  |  |
| Operating            | -34 <sup>°</sup> C to +74 <sup>°</sup> C   |  |  |  |
| Storage              | $-40^{\circ}$ C to + 95°C  |  |  |  |
| Humidity             | 98% Non-Condensing   |  |  |  |

# Application



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