Vi-Link
Fiber Optic Communications

# 16 Slots Ethernet Media Converters Managed NEMA Chassis

# MC1600

Email: sales@vi-link.net - Tel: 714-312-0654 - Web: www.vi-link.net

MC Series

## Overview

The VI-LINK MC1600 manageable rack mount Media Converter is a 2U rack mount media converter chassis with a Network Management Module, it provides a universal platform that facilitates 10/100 M and 10/100/100M Ethernet media converter modules, operating in high temperature NEMA harsh environment conditions.

The MC1600 chassis accommodates up to 16 hot-swappable modules with redundant power supplies, combining for the collective management of the equipment in the equipment room. It is allowed to insert 16 transmitting and receiving modules in different types. It can extend the conventional 10/100M Ethernet or 1000M Fast Ethernet to 20Km~100Km via the quick Ethernet Fiber-optical Line. The collective dual power supplies can ensure the uninterrupted operation of the system.

The MC1600-NMS network management module is designed to collect the relational information from the media converters installed in the chassis, and manage the functions of media converters. The module provides one general 10/100M RJ45 port and one general RS232 console port. The NMS can manage both local and remote Media Converters. The Vilink's manageable system software supports the management functions base on WEB Management and provides full range of standards such as HTTP, SNMP, TFTP, TELNET ...etc. The system has proper interface for each Media Converter.

The NMS also supports local command-string management via Console port, the users can manage the devices via other networks such as Telephone System, in case the Ethernet networks failed.

## Features

- *Supports local and Remote Web Management*
- *17 Slots Chassis (16 i/o Slots, 1 NMS Slot)*
- *Fully Complies with IEEE802.3 10Base-T, IEEE802.3u 100Base-TX/FX standard*
- *Extend fiber distance up to 2km for MM fiber and 20-100km for SM fiber*
- *Support Local and Remote management*
- *Supports Full Standard HTTP, SNMP*
- *Extended temperature*
- *AC100V-AC240V and DC-48V is optional*

## Applications

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

## Order Information

| Model | Descriptions |
|---|---|
| MC1600 | 16 slots Media Converters Managed NEMA Chassis with Dual AC Power Supply |

# MC1600 Technical Specifications

Vi-Link Fiber Optic Communications

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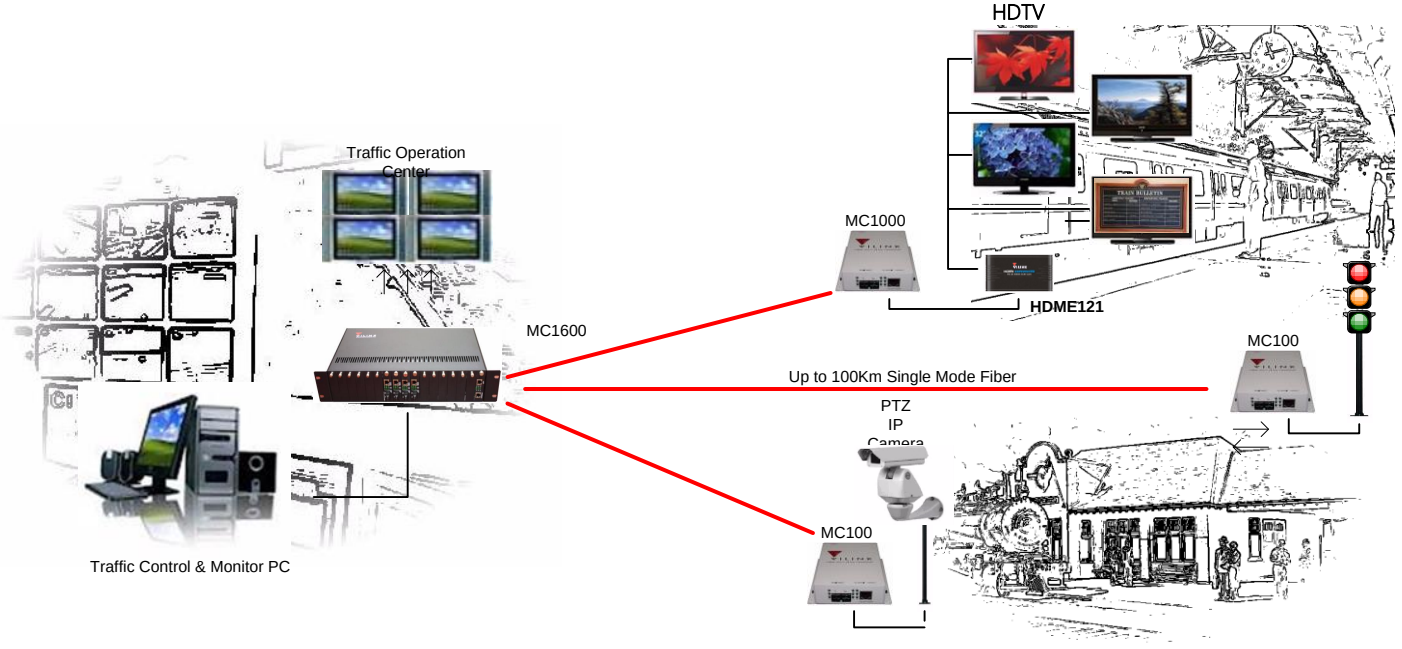
## Specifications

| System: | |
|---|---|
| I/O Slots | 16 Hot Swap MC |
| Indicators | PWR, Link |
| Management | Local Console and Remote Web |
| Standards | IEEE802.3 10BaseT<br>IEEE802.3u 100Base TX/FX<br>IEEE802.3 ab 1000Base TX<br>IEEE802.3 3z FX |
| **Network Management :** | |
| Interface | Web Browser, SNMPv1, v2c Monitor |
| Port Configuration | Port enable, Auto-Negotiation, Full and Half Duplex mode, Flow Control Enable, Bandwidth Control |
| VLAN | 16 IEEE 802.1Q VLAN / Q-in-Q VLAN |
| TS-1000 OAM | IEEE 802.3ah OAM / Loop Back Test |
| Link Aggregation | Supports IEEE 802.3ad LACP |
| QoS | 802.1p Priority, DSCP field in IP |
| IGMP Snooping | IGMP (v1/v2) Snooping, up to 64 Multicast groups |
| SNMP MIBs | RFC-1213 MIB-2, RFC-1573 MIB<br>RFC-2819 RMON MIB (Group 1) |

| Input Power | |
|---|---|
| AC | 90~240 VAC @ 50/60 Hz |
| DC | -48 VDC |
| Currrent | 5 Amp Max |
| **Output Power:** | |
| Output Power | 120 Watts |
| Output Voltage | +5 VDC @ 20 Amps |
| Power Fold back | 120% of Max |
| Line Regulation | +/- 0.2% |
| Load Regulation | +/- 0.5% |
| Noise/Ripple | 25 mV RMS, 50 Vp-p Max |
| Overshoot | 5% Max |
| **Physical:** | |
| Dimensions | 19" x 3.5" x 12" |
| Weight | 10 lbs |
| **Environment:** | |
| Operating | -34$^0$ C to +74$^0$C |
| Storage | -40$^0$C to + 95$^0$C |
| Humidity | 98% Non-Condensing |

## Application




Typical MC100/MC1000 and MC1600 Application