

Fiber Optic 4 Ports PoE Media Converter 10/100M Ethernet

ITS Equipment Series

Model MC104



Overview

The Vilink MC104 Web Management Media Converter series is designed to operate in high temperature NEMA environment with 4 x 10/100Mbps **PoE ports** 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 MC104 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

- Complies with IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.33z 100Base FX
- Support Power Over Ethernet
- Supports Auto-Negotiation, Auto Recovery
- Auto-MDI / MDI-X detection
- Built-in Web Interface for Remote Management
- Manual IP Setting / DHCP Client for IP Assignment
- Prevents packet loss with back pressure (Half-Duplex) and 802.3x PAUSE frame flow control (Full-Duplex)
- 9K Jumbo frame supports at all speed
- Supports Maximum Frame Size to 16 K
- Loop Detection / Broadcast /Multicast Storm Control
- Supports IEEE 802.1Q VLAN and Q-in-Q VLAN groups

Applications

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

Ordering Information

Model	Descriptions
MC104ST03	Fiber Optic 4 Ports PoE 10/100M Media Converter, Web managed, SC SM 40Km, +5 VDC *** Please Consult Factory for Additional Model Numbers***



Technical Specifications

Model

MC104

ITS Equipment Series

Power

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

+5 VDC @1 Amp

Fiber Interface: Port 1 x 100Base-FX Data Rate 100 Mbps Connector SC Distances 2KM@850MM, 10KM@1310MM 40KM@1310SM, 100KM@1550SM TX Interface: TX Port 4 x 10/100Base-TX PoE 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 enable, Auto-Negotiation, Full Port Configuration and Half Duplex mode, Flow Control 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 Multicast groups RFC-1213 MIB-2, RFC-1573 MIB SNMP MIBs RFC-2819 RMON MIB (Group 1) **Environment:** -34° C to +74°C Operating -40° C to + 95°C Storage Humidity 98% Non-Condensing

Application

