

Overview

The Smart Fast Ethernet Media Converters support media conversion between 10/100Base-TX and 100Base-FX networks. There are multimode ST/SC connectors, single-mode 15km and single fiber single-mode 20km fiber connection options for your needs. It allows two type segments to connect easily, efficiently and inexpensively. This converter can be used as a standalone unit or as a slide-in module to the Vilink 19" Intelligent Media Converter Chassis MC-1600 (up to 16 units). With the chassis, the smart converter can be managed through the RS-232 console, Telnet, Web or a SNMP agent.

The Smart Fast Ethernet Media Converters support Auto MDI/MDIX for the TX port and a store-and-forward mechanism. Using the DIP-switches on the converter, the speed, FDX/HDX, auto-negotiation/forced, LLR and LLCF mode for copper and fiber may be configured. The ENWGT-8 series smart Gigabit Ethernet Media Converters also provide a DIP-switch for auto-negotiation/forced and LLR configuration with the LLCF function enabled by default.

Using the Smart Media Converter's Link Pass Through function, network cable problems are easily and quickly isolated to decrease link downtime. The Link Pass Through function is a combination of two mechanisms: Link Loss Carry Forward (LLCF) and Link Loss Return (LLR). When LLCF is enabled, the ports do not transmit a link signal until they receive a link signal from the opposite port. Link loss is "carried forward" to the managed switch or hub that is sending the link. LLCF can be used for either copper or fiber ports. When LLR is enabled, the fiber port's transmitter shuts down if its receiver fails to detect a valid receive link. If one of the optical conductors is bad, the converter with LLR enabled will return a no link condition to its link partner. LLR is used to detect link problems only on the fiber port. Both can immediately alert administrators to problems with the link media, and provide an efficient solution for network monitoring.

The MC100 Smart Fast Ethernet Media Converters are available in Multimode and Singlemode configurations as well as Dual Fiber and



Features

- One-channel media conversion between 10/100Base-TX and 100Base-FX
- Fiber media allows: multi-mode fiber and single-mode fiber using SC connector
- Supports Link Pass Through function with LLCF and LLR mechanisms
- DIP switch for Forced mode or Auto-negotiation and LLR (enable/disable)
- Auto-negotiation of duplex mode on 10/100Base-TX port
- Supports Auto-MDI-MDIX for 10/100Base-TX port
- Full wire speed forwarding rate
- Front panel status LEDs
- Used as a stand-alone device or with the Intelligent Chassis System

Ordering Information

Model	Description
MC100SC03	100Base-TX to 100Base-FX Standalone Smart Fast Ethernet Converter (1310 SM, SC, dual fiber)
MC100SC05	100Base-TX to 100Base-FX Standalone Smart Fast Ethernet Converter (1550 SM, SC, dual fiber)
MC100RSC03	100Base-TX to 100Base-FX Rackmount Smart Fast Ethernet Converter (1310 SM, SC, dual fiber)
MC100RSC05	100Base-TX to 100Base-FX Rackmount Smart Fast Ethernet Converter (1550 SM, SC, dual fiber)
MC100SC35	100Base-TX to 100Base-FX Standalone Smart Fast Ethernet Converter (1310 SM, SC, single fiber)
MC100SC53	100Base-TX to 100Base-FX Standalone Smart Fast Ethernet Converter (1550 SM, SC, single fiber)
MC100RSC35	100Base-TX to 100Base-FX Rackmount Smart Fast Ethernet Converter (1310 SM, SC, single fiber)
MC100RSC53	100Base-TX to 100Base-FX Rackmount Smart Fast Ethernet Converter (1550 SM, SC, single fiber)

* Other options are available (SC/ST connectors, Multimode). Please call for availability

Specifications

Model:	MC100	MC100(S)	MC100R	MC100R(S)
Standards	10/100Base-TX / 100Base-FX			
Ports	1 x 10/100Base-TX / 1 x 100Base-FX			
Copper Connectors	RJ-45			
Fiber Connectors	Dual SC	Single SC	Dual SC	Single SC
Max Fiber Distance	50 Km	30 Km	50 Km	30 Km
Fiber Optic Cable	Multimode 62.5/125µm or 50/125µm Singlemode 9/125µm			
Copper Cable	10Base-T 2 Pair UTP Category 3, 4, 5 up to 100m 100Base-TX 2 Pair UTP Category 5 up to 100m			
Speed	Ethernet: 10/20 Mbps for half/full duplex Fast Ethernet: 100/200 Mbps for half/full duplex			
LED Indicators	Unit: PWR (power) TX: FAIL, LINK/ACT, FDX, 100M FX: FAIL, LINK/ACT, FDX			
DIP Switch	Fiber Half/Full duplex, TX fixed/auto-negotiation, TX 10/100M, TX Half/Full duplex, LLR enable/disable, LLCF enable/disable			
Power Consumption	7.2 W (maximum)			
Power Input	7.5V, 1.5A			
Dimensions	120 x 88 x 25 mm (L x W x H)			
Configuration	Standalone		Rackmount	
Environment	Operating Temperature: 0 ~ 70°C Storage Temperature: -25 ~ 90°C Humidity: 10% ~ 90% RH (operating), 5% ~ 90% RH (storage)			

Application

