JetCon 1501

Fast Ethernet Media Converter

- Complies with IEEE802.3/ IEEE802.3u/ IEEE802.3x standards
- Convert 10/100TX port to Fiber optic network
- Supports auto-MDI/MDIX & auto-negotiation.
- Supports full-duplex & half-duplex operation and flow control
- Supports Link Loss Forwarding technology
- Supports chassis mount

CE FC

Overview

The JetCon 1501 Fast Ethernet Media Converter series are designed to convert 10/100Base-TX signals to 100Base-FX signals. It greatly extends the connection range of Ethernet device to transmit & receive data via fiber cable without performance degradation.

JetCon 1501 is using store-and-forward technology in switching converter mode. It will filter out abnormal packets to keep network performance , supporting the data forwarding rate up to 148810 pps in full wire speed. The JetCon 1501 supports auto-negotiation & flow control for 10/100Mbps connection. With the Link Loss Forwarding technology, the JetCon1501 can fast detect the broken link on RJ-45 port and forces the disconnection on the fiber port immediately. JetCon 1501 also features diagnostic LEDs, which displays power, link, speed and activity, allowing you to quickly detect and correct problems on the network.

Specifications

Technology

Standard:
IEEE802.3 10Base-T
IEEE802.3u 100Base-TX
IEEE802.3u 100Base-FX
IEEE802.3x flow control

Interface

Number of Ports:
1 x 10/100 Base-TX with Auto MDI/MDI-X function, 1 x 100BaseFX
Connectors:
10/100 Base-TX: RJ-45
100Base-FX: SC or ST
Power plug
Cables:
RJ-45 connector: supports CAT-3,CAT-4,CAT-5 unshielded twisted pair or shielded twisted pair cable. The link distance is maximum 100 meters.
SC connector: supports multi-mode or single-mode optical fiber.
ST connector: supports multi-mode or single-mode optical fiber.
Multi-mode fiber: 50/125um or 62.5/125um, max. distance 2 KM
Single-mode fiber: 9/125um or 10/125 um, max. distance 30/60/90 KM
Fiber Transceiver:
JetCon1501-m, Multi-mode:2KM max. distance
Wave-length: 1310nm
Maximum TX power: -12dB
Minimum TX power: -22dB
Sensitivity: -31dB
Power Budget: 9dB

Single-mode: 30KM max. distance
Wave-length: 1310nm
Maximum TX power: -5dB
Minima TX power: -13dB
Sensitivity: -32dB
Power Budget: 19dB

Single-mode: 60KM max. distance
Wave-length: 1310nm
Maximum TX power: 2dB
Minima TX power: -3dB
Sensitivity: -32dB
Power Budget: 29dB

Single-mode: 90KM max. distance
Wave-length: 1310nm
Maximum TX power: 13dB
Minima TX power: 8dB
Sensitivity: -33dB
Power Budget: 41dB
Diagnostic LEDs:
System: IPower On/Off
RJ-45 port: Link/Activity, Speed and FDX/Col
Fiber port: Link/Activity & FDX

Power Requirements

System Power: 5V DC 1A
Power Consumption: 3.4 Watts (Maximum)

Mechanical

Installation: Desktop or chassis mount
Casing: Sheet metal case
Dimensions:
102 mm x 74 mm x 22 mm (L x W x H)
Weight:
230g without power adapter

Environmental

Operating Temperature: 0 to 60°C
Operating Humidity: 10% to 90% (Non-condensing)
Storage Temperature: -20 to 70°C
Storage Humidity: 5%~ 90% non-condensing

Regulatory Approvals

EMI: FCC Class A, CE/EN55022
Warranty: One year

Ordering Information

JetCon 1501C 10/100Base-TX to 100Base-FX Media Converter with SC connector, Multi-mode
JetCon 1501T 10/100Base-TX to 100Base-FX Media Converter with ST connector, Multi-mode
JetCon 1501C30 10/100Base-TX to 100Base-FX Media Converter with SC connector, Single-mode 30KM
JetCon 1501T30 10/100Base-TX to 100Base-FX Media Converter with ST connector, Single-mode 30KM
JetCon 1501C60 10/100Base-TX to 100Base-FX Media Converter with SC connector, Single-mode 60KM
JetCon 1501C90 10/100Base-TX to 100Base-FX Media Converter with SC connector, Single-mode 90KM
Includes:

- Fast Ethernet Media Converter
- Quick Installation Guide
- AC-DC Power Adapter