

## 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



#### 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: I Power 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