

JetCon 3301

Gigabit Ethernet Media Converter

- Complies with IEEE802.3ab/ IEEE802.3z standards
- Convert 1000Base-T port to Gigabit Fiber optic network
- Supports auto-MDI/MDIX & auto-negotiation.
- Supports full-duplex operation and flow control
- Supports Link Loss Forwarding technology
- Supports chassis mount



Overview

The JetCon 3301 Gigabit Ethernet Media Converter series are designed to convert 1000Base-T signals to 1000Base-SX/LX signals. It greatly extends the connection range of Ethernet device to transmit & receive data via fiber cable without performance degradation.

The JetCon 3301 converter series support jumbo packets up to 10KB, also support auto-negotiation, flow control function both on RJ-45 copper port and Fiber port. JetCon 3301 series are 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 1488100 pps in Gigabit Ethernet speed. With the Link Loss Forwarding technology, the JetCon 3301 can fast detect the broken link on RJ-45 port and force the disconnection on the fiber port immediately. JetCon 3301 also features diagnostic LEDs, which displays power, link and activity, allowing you to quickly detect and correct problems on the network.

Specifications

Technology

Standard:

IEEE802.3ab 1000Base-T
IEEE802.3z 1000Base-SX/LX

Interface

Number of Ports:

1 x 1000 Base-T with Auto MDI/MDI-X function,
1 x 1000BaseSX/LX

Connectors:

1000 Base-T: RJ-45
1000Base-SX/LX: SC or LC

Power plug

Cables:

RJ-45 connector: supports CAT-3,CAT-4,CAT-5, 5e or 6 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.

LC connector: supports multi-mode or single-mode optical fiber.

Multi-mode fiber: 50/125um, max. distance 550 M,
60/125um, max. distance 220 M,

Single-mode fiber: 9/125um or 10/125 um, max. distance 10/20 KM

Fiber Transceiver:

JetCon 3301, Multi-mode:550M max. distance

Wave-length: 850nm

Maximum TX power: -4dB

Minimum TX power: -9dB

Sensitivity: -17dB

Power Budget: 8dB

Single-mode: 10KM max. distance

Wave-length: 1310nm

Maximum TX power: -3dB

Minima TX power: -8dB

Sensitivity: -20dB

Power Budget: 12dB

Single-mode: 20KM max. distance

Wave-length: 1310nm

Maximum TX power: -2dB

Minima TX power: -7dB

Sensitivity: -22dB

Power Budget: 15dB

Diagnostic LEDs:

System: Power On/Off

RJ-45 port: Link/Activity, Speed and FDX/Col

Fiber port: Link/Activity & FDX

Power Requirements

System Power: 5V DC 1.4A

Power Consumption: 5.2 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:

240g without power adapter

Environmental

Operating Temperature: -10 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 3301C 1000Base-T to 1000Base-SX Media Converter with SC connector, Multi-mode

JetCon 3301L 1000Base-T to 1000Base-SX Media Converter with LC connector, Multi-mode

JetCon 3301C10 1000Base-T to 1000Base-LX Media Converter with SC connector, Single-mode 10KM

JetCon 3301C20 1000Base-T to 1000Base-LX Media Converter with SC connector, Single-mode 20KM

JetCon 3301L10 1000Base-T to 1000Base-LX Media Converter with LC connector, Single-mode 10KM

JetCon 3301L20 1000Base-T to 1000Base-LX Media Converter with LC connector, Single-mode 20KM

Includes:

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