JETCON

Specification

Technology

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

Packet transfer mode:

Support Switch mode and Pure Converter mode. This feature is select by DIP-switch.

The Switch mode will begin to forward the received data only after it received the frame completely, the forwarding latency depends on the packet length and the packet length support 64 to 1600Bytes. The pure converter operating algorithm is different with switch mode; it will direct transfer Ethernet signal without any frame checking

Link Lose Forward: Enabled/Disabled by DIP-Switch 1

Hi-pot Testing: Passed AC1.5KV Hi-pot tesing on port-port, power-case and port-power

Interface

Number of Ports: 1 x 10/100 Base-TX with Auto MDI/ MDI-X, Auto-Negotiation functions

1 x 100Base-FX

Connectors:

10/100 Base-TX: RJ-45

100Base-FX: Duplex SC for multi-mode or single-mode fiber

Power: 2-Pin Terminal Block

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

Multi-mode fiber: 50/125um or 62.5/125um, max. distance 2KM

Single-mode fiber: 8/125um, 9/125um or 10/125 um, max distance 30KM

Fiber Transceiver:

JetCon1301-m, Multi-mode: 2KM max. distance

Wave-length: 1310nm

Min Tx Power:-19dBm

Max Tx Power:-14dBm

Min Rx Sensitivity:-30dBm

Link budget:11dBm

JetCon1301-s, Single-mode: 30KM max. distance

Wave-length:1310nm

Max Tx Power:-8dBm

Min Tx Power:-15dBm

Min Rx Sensitivity:-34dBm

Link budget:19dBm

Configuration DIP Switch:

DIP 1: Link loose forwarding Enable /Disable.

DIP 2: RJ-45 Auto-Negotiation/Forced 100Mbps Full Duplex

DIP 3: Fiber Full Duplex/Half Duplex

DIP 4: Switch/Pure Converter mode.

Diagnostic LED:

System: Power (Green)

RJ-45 port: Link (Green ON)/Activity (Green Blinking)

Fiber port: Link(Green ON)/Activity(Green Blinking)

Power Requirements

System Power: 2 pins terminal block for power input.DC 24V (18~32V) with polarity reverse protection.AC 18~27V, 47~63Hz

Power Consumption: 3.5 Watts @ DC 24V(Maximum)

Mechanical

Installation: DIN-Rail mount

Case: Aluminum metal case with IP31 grade case protection for drop-waterproof and dustproof.

Dimension:

70mm(H) x 30mm (W) x 89mm (D) (with DIN rail clip)

70mm(H) x 30mm (W) x 80mm (D) (without DIN rail clip)

Weight:

374g with package

292g without package

Environmental

Operating Temperature: -10 ~70°C

Operating Humidity: 0% ~ 95% (non-condensing)

Storage Temperature: -40 ~ 80°C

Storage Humidity: 0%~ 95% (non-condensing)

Regulatory Approvals

Hi-Pot: AC1.5KV on port to port and port to power.

EMI: FCC Class A, CE/EN55022.

EMC immunity interface:

EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11

Safety: CE/EN60950

Shock: IEC60068-2-27

Vibration: IEC60068-2-6

Free Fall: IEC60068-2-32

MTBF: 506,819 Hours, MIL-HDBK-217F GB standard

Warranty: 5 years

Ordering Information

JetCon 1301-m Industrial Fast Ethernet to Fiber Media Converter, SC, Multi-mode/2KM

Includes:

- JetCon 1301-m
- Quick Installation Guide

JetCon 1301-s Industrial Fast Ethernet to Fiber Media Converter, SC, Single-mode/30KM

Includes:

- JetCon 1301-s
- Quick Installation Guide