10/100/1000M SFP Media Converter

Applications

Gigabit Fiber Media Converter can convert OpticalElectric Ethernet signals between 10/100/1000M UTP interface (TX) and 1000M optical fiber interface (FX). The traditional 10/100/1000M gigabit Ethernet can be extended to the distance of 100km through optical fiber link. The performance and quality of the products are excellent because of adopting latest Gigabit IC from USA and Taiwan. 6 Group LED indicated lights could fully monitor the working conditions of converters. It is easy for users to observe and diagnose the failure of converters.

Main features

◆.Auto negotiation function allows UTP ports to auto select 10/100/1000M and Full Duplex or Half Duplex.

◆.The UTP port supports the connection of MDI/MDI-X auto crossover.

◆.Multimode Fiber: the max distance up to 220m/ 550m

   Singlemode Fiber: the max distance up to 100km

◆.Supporting the max 1536 byte Ethernet packet

◆.Supporting flow control

◆.Adopting internal power supply

◆.To provide low delay of data transmission.

◆ .Completely transparent to the network protocol.

◆ .The cable is realized by using dedicated ASIC chip speed forward.Programmable ASIC will be a number of functions to focus on single chip, it has a simple design, high reliability,less power consumption,the device can get a higher performance and lower cost.

◆ .Network equipment can provide network diagnosis, upgrade, status reports, abnormal situation report and control and can provide complete operation log and alarm log.

◆.Support the ultra wide working temperature range.

Technical Specifications

◆.Operating standards: IEEE802.3z/AB, 1000Base-T and 1000Base-SX/LX

◆.MAC address table: 4K

◆.Data Buffer: 256K

◆.Connector: UTP: RJ-45,10/100/1000Mbps; Fiber: SC,1000Mbps

◆.Cable :

  UTP cable: Cat 5e or Cat 6 (the max distance up to 100m)

  Fiber : multimode : 50/125, 62.5/125μm (the max distance up to 550/224m)

        singlemode : 8.3/125, 8.7/125, 9/125μm (the max distance up to 100km)

◆.Flow control

  Full Duplex: IEEE802.3x

  Half Duplex: back pressure.

◆.Power: AC 220V(170-260V) 50Hz; DC 5V，2A

◆.Ambient temperature：0 ～ +50℃

◆.Storage temperature：-20 ～ +70℃

◆.Humidity：5% ～ 90%

◆.Dimensions：40 (high) x 110 (width) x 140 (length) mm

Fiber Information

Connector	Fiber type	Max distance	Wavelength	TX power	Sensitivity	Link Budget
SC	Multimode	220/ 550m	850nm	-11～-3dBm	-18dBm	7dBm
SC	Singlemode	20km	1310nm	-10～-3dBm	-21dBm	11dBm
SC	Singlemode	40km	1310nm	-4～0dBm	-25dBm	21dBm
SC	Singlemode	60km	1310nm	0～3dBm	-26dBm	26dBm
SC	Singlemode	80km	1550nm	-2～2dBm	-26dBm	24dBm
SC	Singlemode	100km	1550nm	1～3dBm	-27dBm	28dBm

Order Information

Product description
10/100/1000M Ethernet Multimode Converter: optical wavelength 850nm, optical fiber max distance up to 224m for 62.5μm , 550m for 50μm
10/100/1000M Ethernet Singlemode Fiber Converter: optical wavelength 1310 or 1550nm, optical fiber max distance up to 20, 40, 60, 80，100, or 120km, xx for the amount of distance.

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