深圳易天光通信有限公司
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10&100&1000M Media Converter - Technical Specification

Introduction

10/100/1000M adaptive fast Ethernet optical media converter is a new product used for optical transmission via high-speed Ethernet. It is capable of switching between twisted pair and optical and relaying across 10/100/1000 Base-TX and 100 Base-Fx network segments, meeting long-distance, high-speed and high-broadband fast Ethernet workgroup users' needs, achieving high-speed remote interconnection for up to 120 km's relay-free computer data network. With steady and reliable performance, design in accordance with Ethernet standard and lightning protection, it is particularly applicable to a wide range of fields requiring a variety of broadband data network and high-reliability data transmission or dedicated IP data transfer network, such as telecommunication, cable television, railway, military, finance and securities, customs, civil aviation, shipping, power, water conservancy and oilfield etc, and is an ideal type of facility to build broadband campus network, cable TV and intelligent broadband FTTB/FTTH networks.

Features

- In accordance with Ethernet standards IEEE802.3, 10/100Base-TX and 100Base-FX
- Supported Ports: SFP for optical fiber; RJ45 for twisted pair
- Auto-adaptation rate and full/half-duplex mode supported at twisted pair port
- Auto MDI/MDIX supported without need of cable selection
- Up to 2 LEDs for status indication of optical power port and UTP port
- External and built-in DC power supplies provided

- 128 K's data buffer RAM
- Support for low-delay time pure data transmission and full/half-duplex flow control.
- Built-in watch-dog timer to monitor any error in internal data exchange

Technical Parameters

Technical Parameters for 10/100/1000M Adaptive Fast Ethernet Optical Media Converter		
Number of Network Ports	4 channel	
Number of Optical Ports	1 channel	
NIC Transmission Rate	10/100/1000 Mbit/s	
NIC Transmission Mode	10/100/1000M adaptive with support for automatic inversion of MDI/MDIX	
Optical Port Transmission Rate	1000Mbit/s	
Operating Voltage	AC 220V or DC +5V	
Overall Power	<1W	
Network Ports	RJ45 port	
Optical Specifications	Optical Port: SFP Multi-Mode: 50/125, 62.5/125um Single-Mode: 8.3/125, 8.7/125um, 8/125,10/125um Wavelength: Single-Mode: 1310/1550nm	
Data Channel	IEEE802.3x and collision base backpressure supported Working Mode: Full/half duplex supported Transmission Rate: 100Mbit/s with error rate of zero	
Some Product Modes and port Technical Parameters of Optical Port		

Operating Voltage

- AC 220V/ DC +5V

Operating Humidity

- Operating Temperature: 0℃ to +70℃
- Storage Temperature: -40℃ to +85℃
- Humidity: 5% to 90%

Quality Assurance

- MTBF > 100,000 hours;
- Replacement within one year and non-charge repair within three years guaranteed

Application Fields

- For intranet prepared for expansion from 100M to 1000M
- For integrated data network for multimedia such as image, voice and etc.
- For point-to-point computer data transmission
- For computer data transmission network in a wide range of business application
- For broadband campus network, cable TV and intelligent FTTB/FTTH data tape
- In combination with switchboard or other computer network facilitates for: chain-type, star-type and ring-type network and other computer networks

Application Industries

Intelligent transport monitoring system, safety and security monitoring system, campus network, industrial monitoring (electric power, chemical industry, steel, oil, railway and water conservancy etc.); military monitoring (warehouse, guard and confidentiality etc.) TV program transfer system;