DATA SHEET

10/100/1000M Self-adaptive Fiber Media Converter

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CE FC RoHS

Ethernet optical fiber transceiver can efficiently realize the conversion between 10 / 100/1000M Ethernet electrical port and fiber port, automatically compatible with half / full duplex mode , It can carry out long-distance data and video signal transmission via optical fiber,which is convenient for network upgrading and flow control. Adopt international advanced chip and design to ensure the stability and practicability.With ultra-low transmission delay and line speed forwarding ability,it can realize flexible Ethernet expansion even in harsh environment. Use standard international optical and electronic components to ensure reliable and stable operation.This series of products can be configurated with combo port, able to connect with single-mode fiber or multi-mode fiber according to the user's situation.Adopts double side ventilated heat dissipation design.Support desk and rack installtion.

Main Features

- Built-in high efficiency switching core to achieve flow control and reduce broadcast packet
- Automatically adapt to 10/100/1000Mbps network environment, free conversion network upgrade
- Support full-duplex and half-duplex transmission mode, automatic negotiation
- Support 9216 byte packets, monitoring and transmission more smooth
- Complete power link, working mode indicator light, working state at a glance
- low power consumption low heat, long time stable work, network security advanced
- Support dual-fiber multimode , dual-fiber single-mode,single-fiber single-mode,and multiple fiber interface options

Application Environment

Metro Optical Broadband Network:
Data network operators such as telecommunications, cable TV, and network system integration,etc.

Broadband private network:
Suitable for financial, government, oil, railway, electric power, public security, transportation, education and other industries

Multimedia transmission:
Integrated transmission of images, voice and data, suitable for remote teaching, conference TV, videophone and other applications

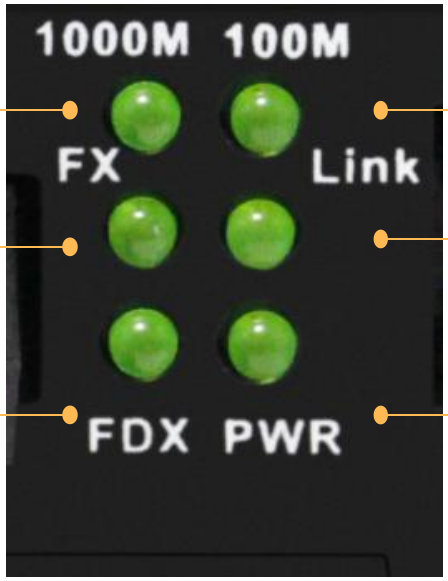
Real-time monitoring:
Simultaneous transmission of real-time control signals, images and data

Specifications	
I/O Interface	
Power	DC 5V
Ethernet	1-Port 10/100/1000M RJ45 1-Port 1000M fiber ports
Performance	
Switching Capacity	4Gbps
Throughput	2.976Mpps
Packet Buffer	2K
MAC Address	2K
Jumbo Frame	9216bytes
Transfer Mode	Store and forward
MTBF	100000 hour
Standard	
Network protocol	IEEE802.3 (10Base-T) IEEE802.3u (100Base-TX/FX) IEEE802.3ab (1000Base-TX/FX) IEEE802.3x (Flow control)
optical characteristics	multi mode：850/1310nm （0-2KM） Single mode：1310/1550/1490nm（0-120KM）
Industry Standard	EMI: FCC Part 15 CISPR (EN55032) class A EMS: EN61000-4-2 (ESD)、EN61000-4-4 (EFT) Shock: IEC 60068-2-27 Free Fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Network Medium	10Base-T : Cat3、4、5 or above UTP(≤100m) 100Base-TX : Cat5 or above UTP(≤100m) 1000Base-TX : Cat5 or above UTP(≤100m)
Optical Media	Multimode fiber ：50/125、62.5/125、100/140um Single mode fiber : 8/125、8.7/125、9/125、10/125um
Protection	
Security Certificae	CE、FCC、RoHS

Environment	
Working Environment	Working Temperature：-20~50°C Storage Temperature：-40~70°C Working Humidity ：10%~90%，non-condensing Storage Temperature：5%~90%，non-condensing Working Height：Maximum10,000 feet Storage heigh：Maximum 10,000 feet
Mechanical	
Structure Size	Product Size：94*70*26mm Package Size：245*190*60mm Product Net-Weight：0.2*2kg Product Gross-Weight：0.7kg
Packing Info	MEAS：620*400*510mm Packing Qty：40 Pair Packing weight：29.5 KG
Power Voltage	Adapter input voltage : AC 100-240 V Media Converter input voltage：DC 5V
Package List	Media Converter 2 pcs, Power Adapter 2 pcs， User manual 1 pcs, Qualification Card 1 pc
Indication	
LED Indicators	PWR（Power indicator） FDX（Network mode） 1000M（1000M Network Link） 100M（100M Network data） FX（Optical Link&Act） Link（Network Link&Act）

Ordering Info	
HR100W-GE-550	1000M Fiber Media Converter-dual-fiber multimode 550m TX/RX 850
HR100W-GE-2	1000M Fiber Media Converter-dual-fiber multimode 2KM TX/RX 1310
HR100W-GE-3-T	1000M Fiber Media Converter-single-fiber single mode 3KM TX1310/RX1550
HR100W-GE-3-R	1000M Fiber Media Converter-single-fiber single mode 3KM TX1550/RX1310
HR100W-GE-25-T	1000M Fiber Media Converter-single-fiber single mode 20KM TX1310/RX1550
HR100W-GE-25-R	1000M Fiber Media Converter-single-fiber single mode 20KM TX1550/RX1310

Panel Indication



Lighting：1000M Network Link

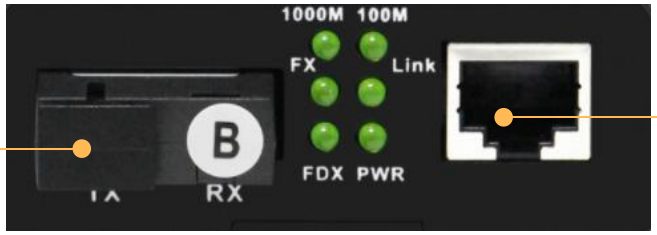
Lighting：100M Network Link

Lighting：Optical Link ON
Flashing：Data transmission
Light off：Link disconnect

Lighting：Link connected
Flashing：Data transmission
Light off：Link disconnect

Lighting：Full-Duplex
Light off：Half-Duplex

Lighting：Powered
Light off：Power failed



Optical module

RJ45

Application