DATA SHEET

HRUÍ

10/100M Self-adaptive Fiber Media Converter

www.hruitech.com

CE FC RoHS

Ethernet optical fiber transceiver can efficiently realize the conversion between 10 / 100M 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 configured 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 10/100Mbps network environment, free conversion network upgrade
- Support full-duplex and half-duplex transmission mode, automatic negotiation
- Support 1536-1552 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:
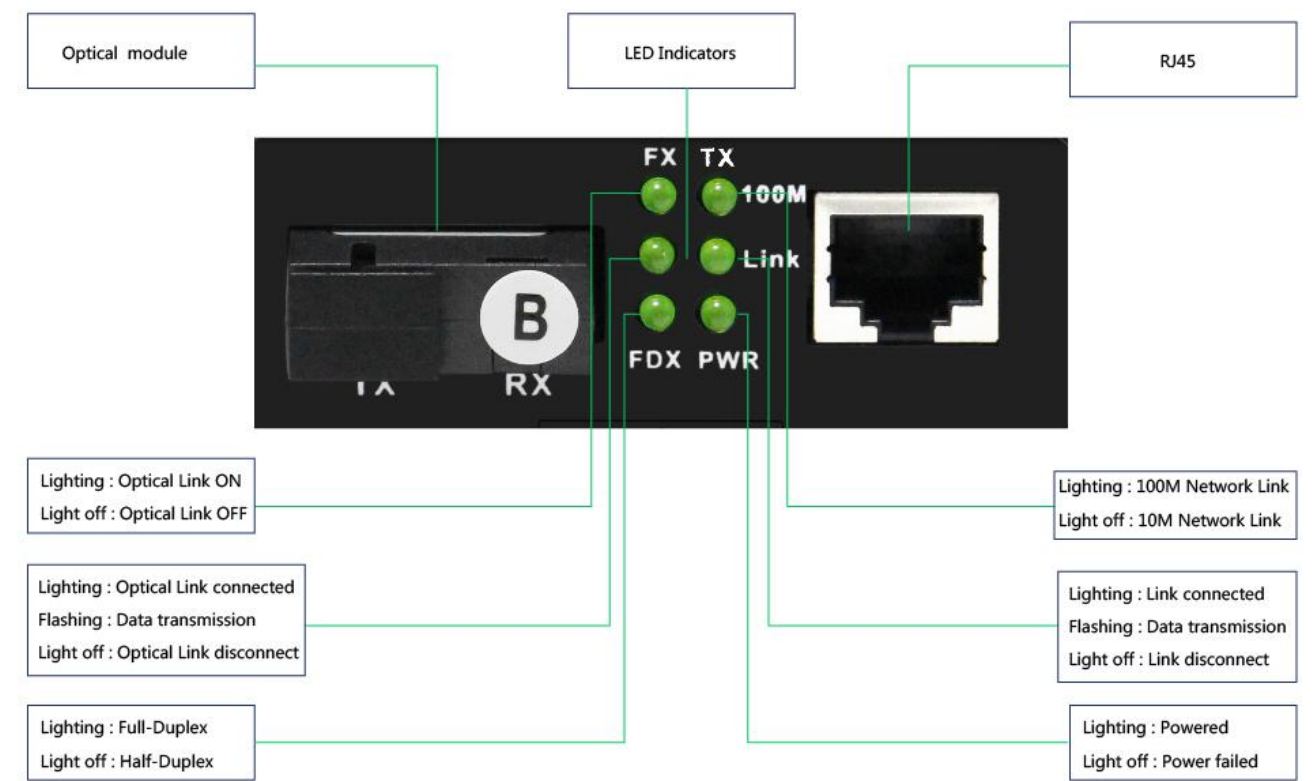Simultaneous transmission of real-time control signals, images and data

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Specifications	
I/O Interface	
Power	DC 5V
Ethernet	1-Port 10/100M RJ45 1-Port 100M fiber ports
Performance	
Switching Capacity	0.4Gbps
Throughput	0.2976Mpps
Packet Buffer	448K
MAC Address	1K
Jumbo Frame	1552bytes
Transfer Mode	Store and forward
MTBF	100000 hour
Standard	
Network protocol	IEEE802.3 (10Base-T) IEEE802.3u (100Base-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)
Optical Media	Multimode fiber : 50/125, 62.5/125, 100/140μm Single mode fiber: 8/125, 8.7/125, 9/125, 10/125μm
Certification	
Safety Certificate	CE、FCC、RoHS

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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 : 29.5KG
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) FX Link (Optical data) TX Link (Network data) FX 100M (Optical Link) TX 100M (Network Link)

Ordering Info	
HR100W-FE-550	100M Fiber Media Converter Dual Fiber Multimode 550m TX/RX 850
HR100W-FE-2	100M Fiber Media Converter Dual Fiber Multimode 2KM TX/RX 1310
HR100W-FE-3-TR	100M Fiber Media Converter Single Fiber Single-mode 3KM TX1310/RX1550
HR100W-FE-25-TR	100M Fiber Media Converter Single Fiber Single-mode 25KM TX1550/RX1310

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Dimension

Optical module	LED Indicators	RJ45

FX **TX**
100M

B

Link

TX **RX**

FDX **PWR**

Lighting : Optical Link ON
Light off : Optical Link OFF

Lighting : 100M Network Link
Light off : 10M Network Link

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

Application

——————— **Optical**

——————— **Copper**

Gigabit Swicth

IPC

AP

PC

Media Converter

Media Converter