Fast Ethernet Fiber Optic Media Converter

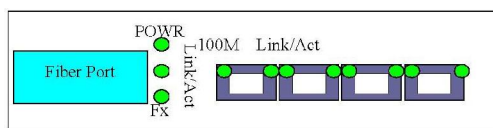## 10/100M Ethernet Fiber Media Converters

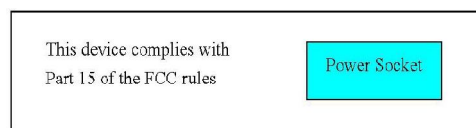## DYS1400 Serial

Main features

10/100Base-TX to 100Base-FX Media Converter

- ❖ 5 ports 10/100M Ethernet switch with built in transceivers and memory;
- ❖ Build in SRAM for frame buffer;
- ❖ Build in storage of 1K MAC address;
- ❖ Compliance with IEEE802.3, 802.3u, 802.3x standard;
- ❖ Compliance CSMA/CD Protocol;
- ❖ Converter twisted-pair cable to 100Base-Fx fiber;
- ❖ Support 10/100Mbps auto-negotiation for RJ45 ports;
- ❖ Support auto MDI/MDI-X function for RJ45 ports;;
- ❖ Passed maximum frame size 1536 bytes;
- ❖ Broadcast storm protection;
- ❖ Fiber Port SC/PC (single/multi-mode),the transmission distance can up to 120Km.
- ❖ RJ45 Port: 100m for 100Base-Tx UTP Cat.5 cable.
- ❖ Inside power: AC 220/110V
- ❖ Power Consume: < 5W.

LED Description

Picture1.Front View   Picture2.Back View

Power: When the power is on and valid ,the LED will solid ON
100M: When the RJ45 port is working at 10M speed ,the LED lamp is off; when 100M speed , it will solid ON
Link/Act: When Fiber or UTP link is valid ,the LEDs will solid on;When data is exchanging ,the LEDs will blink;
FX: When the fiber signals is detected the LED will ON .

Technical Specifications

❖ Standard Protocol:　　　IEEE802.3 10 Base-T standard
　　　　　　　　　　　　　IEEE 802.3u 100Base-TX/FX standard
❖ 2.Connector:Four RJ-45 connector,one SC/ST fiber connector .
❖ Operation mode: full duplex mode or half duplex mode
❖ Power supply parameter:　　　outside: 5V DC 3A
　　　　　　　　　　　　　　　built-in: 110-265V AC　48V DC　12V DC
❖ Environmental temperature: 0℃-60℃
❖ Relative humidity: 5%-90%
❖ TP cable: Cat5 UTP cable
❖ Fiber:50/125,62.5/125um multi-mode fiber ; 9/125,10/125um single-mode fiber.
❖ Dimensions: 40mm x 110mm x 140mm

Installation

• Attach fiber cable from the media converter to the fiber network. The fiber connections must be matched – transmit socket to receive socket, the TX ,RX fiber cable must be paired at both ends .

• Attach a UTP cable from the 10/100BASE-T network to the RJ-45 ports on the media converter .

• Connect the power adapter to the media converter and check that the Power LED lights up. The LINK/ACT LEDs will light up when all the cable connections are satisfactory.

Ordering information:

Transmission characteristics of single fiber transceiver

Product model	Optical wavelength (m)	optical power (dBm)	Receiving sensitivity (dBm)	Transmission Distance (km)
DYS1400SS-SC-20A/B	1310/1550 1550/1310	-3～-8	<-22	20
DYS1400SS-SC-40A/B	1310/1550 1550/1330	0～-5	<-24	40
DYS1400SS-SC-60A/B	1310/1550 1550/1330	0～-3	<-25	60

Dual Fiber transmission features

Product model	Optical wavelength (nm)	Optical power (dBm)	Sensibility (dBm)	Transmission Distance (km)
DYS1400S-SC-5	850	-12～-15	<-20	0.55
DYS1400S-SC-20	1310	-3～-8	<-22	20
DYS1400S-SC-40	1310	0～-5	<-24	40
DYS1400S-SC-60	1310	0～-3	<-25	60
DYS1400S-SC-80	1550DFB	0～-1	<-25	80

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