SG1110-MS
Gigabit SFP Media Converter

Overview

This single port dual fiber gigabit media converter features with link loss diagnosis, electrical port link diagnosis and optical port link diagnosis, dynamic data transmission, full-duplex/half-duplex, speed indicator. It provides the stand-alone RJ-45 electrical interface port, automatic cross connection with switch and hub network. High-performance optical fiber interface, good compatibility and high reliability, fully compatible with other devices.

Applied Situations

- Bad industrial environment or high requirements for Lightning protection
- Intelligent transportation supervisory system (ITS) and safe city
- High speed way supervisory/ Tele-communication system, IP network camera
- Security surveillance system of large corporations, multi-function network system
- Long-distance multi-media schooling/ campus surveillance, long-distance broadcast television transmission system

Features

- Dual fiber bi-directional transmission with applications WDM wavelength of 850nm/ 1310nm/ 1550nm
- Ethernet 10base-T or 100Base-TX to 100Base-FX or 1000Base-T to 1000Base-LX/SX fiber media transition
- 1 x RJ45 (10/100/1000 Base-T) support Auto MDI/MDI-X and Auto-Negotiation
- 1 x Mini GBIC SFP (100 Base-FX/1000 Base-FX)
- Supports IEEE 802.3; IEEE 802.3U; IEEE 802.3X; IEEE 802.3z/AB; IEEE 802.1d standard
- Supports Link Fault Pass-through (LFP) function
- The electrical interface port supports 1000Mbps,100Mbps,10Mbps, both ends of the electrical interface port can use different speed (Working bandwidth for full-duplex is line-speed 2XMbps)
- Supports the transmission of extra-long packets up to 1.6KB
- Features with link loss diagnosis, electrical port link diagnosis and optical port link diagnosis, dynamic data transmission, full-duplex/half-duplex, speed indicator
- Provide stand-alone RJ-45 electrical interface port, automatic cross connection with switch and hub network

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Technical Specification

Product Name	Single Port Dual Fiber Gigabit Media Converter
Model	SG1110-MS
Description	Gigabit single electrical port, single mode/multimode dual fiber media converter
Interface	1x copper cable RJ45 port + 1x SFP fiber port
Transmission	20km can be customized 550m, 40km, 60km or 110km
Optic Fiber	Dual fiber, single mode/ multimode
Broadband	1.25G
Rate	1000MHz
Network Media	100BASE-TX/1000BASE-TX: Cat5 and more UTP
Protocol	IEEE 802.3; IEEE 802.3i; IEEE 802.3u; IEEE 802.3x Flow Control; IEEE 802.3ab
Architecture	Store and forward
LED Indicator	PWR, Fx(Fiber), Tx(RJ45), 1000(Base-T), LNK/ACT, ALM(Alarm)
EMI Safety	FCC Class A, CE
Power Supply	12VDC (1A), 100-240VAC (50-60Hz) Power supply (DC-Jack)
Temp/Huminity	-10-55 C$^{\circ}$(Operating), -20-75 C$^{\circ}$(Storage), 5 to 90% operating humidity
Housing	Aluminum