SG-673
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/half-duplex, speed indicator. It provides the stand-alone RJ-45 10/100 /1000 Mbps electrical interface port, automatic cross connection withswitch 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 (Multimode) 1310nm/ 1550nm (Singlemode)
- Standard : IEEE802.3ab (1000 Base-T), IEEE802.3z (1000 Base-SX/LX), IEEE 802.3u (100Base-TX/FX), IEEE802.3i (10Base-T)
- 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)
- Support : IEEE802.1q (VLAN), IEEE802.1p (QoS), IEEE802.1d (Spanning Tree)
- 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
- 2M Built-in Chip Buffer
- Features with link loss diagnosis, electrical port link diagnosis and optical port link diagnosis, dynamic data transmission, full-duplex/half-duplex, speed indicator
- Bandwidth : 1.4 Gbps
- Provide stand-alone RJ-45 electrical interface port, automatic cross connection with switch and hub network
- Support multiple port type by using SFP module (SC/ST/FC), Singlemode (9/125 um), Multimode (50/125 um)

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Technical Specification

IEEE 802.3	10Base-T (Ethernet)
IEEE 802.3u	100Base-TX/100Base-FX (Fast Ethernet)
IEEE 802.3ab	1000Base-T (Gigabit Ethernet)
IEEE 802.3z	1000Base-SX/LX
IEEE 802.3x	Flow Control
Fiber Optics	
Connector Type	SFP (LC)
Fiber Mode	Depends on SFP module (MM or SM)
Distance	Up to 550km or 2km for Multi-mode Up to 20, 40, 80,120km for Single-mode
LAN (RJ45)	
Speed	Up to 1000Mbps
Max. Distance (meter)	100
Power	
Power Input	5VDC(2A), DC Jack
Power Consumption	<10 Watt
Power Adapter	100-240VAC, 50-60Hz, 5VDC/2A AC Adapter
Duration	
MTBF	120,000 hours

Mechanical and Environment	
Housing	Metal
Dimensions (W x H x D)	70 x 26 x 94 (mm)
Weight	142g
Mounting	Desktop, Chassis Compatible
Operating Temperature	-40~70°C
Storage Temperature	-40~75°C
Operating Humidity	10~95% RH (non-condensing)
Storage Humidity	5~95% RH (non-condensing)
LED Status	PWR, LINK (1000M/100M), TP ACT, FX ACT,

Standards and Certifications	
EMI/EMS	CE EN 50032:2015+A1:2020 +A11:2020 EN IEC 61000-3-2:2019 + A1: 2021 EN61000-3-3: 2013 + A1:2019 EN55035:2017 + A11:2020 EN IEC 62368-1:2020 + A11:2020 FCC 15 Class A

Diagram