

FC1000F ATM Single/Multi-Mode Converters

Overview

HiOSO Ficom FC1000F series single/multi-mode converters are applied to 1000Mbps Gigabit Ethernets with hybrid wiring of single-mode and multi-mode fibers. Ficom FC1000F series single/multi-mode converters can implement mutual conversion between single-mode and multi-mode 1310nm wavelength as well as mutual conversion among 850nm, 1310nm and 1550nm wavelength, and implement signal trunking, so that transmission distance of signal in multi-mode fibers can be extended t longer. FC1000F supports transmission in dual-fiber multi-mode、 dual-fiber single-mode and single-fiber single-mode fibers.

Features

- Protocol supported: IEEE802.3z 100BASE-SX/LX
- Supporting full-duplex and half-duplex network communications;
- Capable of mutual conversion between 850nm multi-mode fiber and 1310nm/1550nm single-mode fiber;
- Supporting direct and transparent transmission of packets in different lengths;
- Supporting the transmission of extra-long packets over VLAN;
- Supporting Quality of Service (QoS) and ensuring transmission of VoIP packets;
- Supporting Spanning Tree Protocol (STP) to form a redundant network;
- Low power consumption, low heat and capable of stable operation for a long period time;
- Supporting multiple types of fiber ports such as dual-fiber multi-mode、 dual-fiber single-mode and single-fiber single-mode, to satisfy the extended requirements of users.

Application

100Mbps Optical Ethernet Network with long-distance transmission

Pictures



Technical Specifications

Parameters	Specifications
Access mode	1000Mbps (1250Mbps)
Standard	IEEE802.3z 1000Base-SX/LX Gigabit Ethernet, IEEE802.1q VLAN, IEEE802.1p QoS, IEEE802.1d Spanning Tree
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 220m (fiber size: 62.5/125μm)/550m (fiber size: 50/125μm) Dual-fiber single-mode: 25/40/60/80/100/120Km; single-fiber single-mode: 25/40/60/80Km
Port	One multi-mode fiber port: Multi-mode – SC (fiber size: 50,62.5/125μm) One single-mode fiber port: Single-mode SC fiber port (fiber size: 9/125μm) Single-fiber single-mode – SC fiber port (fiber size: 9/125μm)
Conversion mode	Medium conversion
Delay	< 0.3μs
Bit error rate	<1/1000000000
MTBF	100,000 hours
LED	POWER (power) SM LINK (single-mode fiber link)

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	MM LINK (multi-mode fiber link)
Power	AC220V 0.3A/DC-48V 0.5A
Power consumption	3.5W
Operating temperature?	-10~55°C
Operating humidity	5%~90%
Storage temperature	-40~70°C
Storage humidity	5%~90% (non-condensing)
Dimensions	26mm(H)*85mm(W)*135mm(D) (height * width * depth) (built-in power) 110mm(H)*22mm(W)*81mm(D) (height * width * depth) (module card)

Order Information

Model	Rate (Mbps)	Conversion Mode	Working Wavelength (nm)	Multi-mode Transmission Distance	Single-mode Transmission Distance	Fiber Interface	Power
FC1000FP-M85SC2-S13SC10/20/40	1000	Multi-mode to single-mode	850-1310	220m/550m	10/20/40km	SC	Built-in AC220V/DC-48V
FC1000FP-M85SC2-S15SC60/80/100	1000	Multi-mode to single-mode	850-1550	220m/550m	60/80/100km	SC	Built-in AC220V/DC-48V
FC1000FC-M85SC2-S13SC10/20/40	1000	Multi-mode to single-mode	850-1310	220m/550m	10/20/40km	SC	Module card DC5V
FC1000FC-M85SC2-S13SC60/80/100	1000	Multi-mode to single-mode	850-1550	220m/550m	60/80/100km	SC	Module card DC5V