

SG1110-SCX-O

Gigabit Single Port single fiber Media Converter



Functions

- Support gigabit RJ45 port and gigabit fiber port combination, which enables users to flexibly build networking to meet the needs of various scenarios.
- Support non-blocking wire-speed forwarding.
- Support full-duplex based on IEEE802.3x and half-duplex based on Flow control and Backpressure.
- Compatible with IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X network protocol, gigabit R45 port rate auto-negotiation.
- Support IEEE 802.1Q VLAN
- Support transmission extra-long VLANs packets.
- Automatic identification of twisted pair MDI/MDI-X cross lines and parallel lines (auto-crossover Ethernet port & connected with switch).
- Plug and play, no configuration required, centralized power supply and centralized connection management through 2U-14 slot rack.
- LED working status indication for network diagnosis and fault checking, reducing maintenance workload.

Overview

SG-1110-SCX-O series is a gigabit fiber media converter independently developed by Shogun. It has 1* 10/100/1000Base-T port and *1000M uplink SC /LC fiber port, User can select different optical modules, such as multimode dual fiber, single-mode dual fiber, and single-mode singlefiber. The media converter adopts the enterprise-class Taiwan Realtek company's carrier-grade chip solution, which has stable performance, good quality and high cost performance.It is suitable for optical fiber access application scenarios such as security monitoring, wireless coverage, intelligent transportation,support Quantity of Service (QoS) and safe cities to form a cost- effective and stable communication network. Unmanaged model, plug and play, no configuration, easy to use.

Specification

Model	SG1110-MCX-O	SG1110-SCX-O	SG1110S-SCX-O-A/B
Interface Characteristics			
Interface	1*10/100/1000M Base-TX RJ45 port (Data) 1*1000M Base-FX uplink SC/LC fiber port (Data)		
Ethernet Port	10/100/1000Base-T,auto-sensing,Full/half duplex MDI/MDI-X self-adaption		
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-TX: Cat5 or later UTP(≤100 meter) 1000BASE-T: Cat5e or later UTP(≤100 meter)		
Optical Fiber Port	1.25Gbps, multi-mode dual fiber SC port	1.25Gbps,single-mode dual fiber SC port	1.25Gbps,single-mode single fiber SC port
Optical Cable/ Distance	Multi-mode (50/125 μm): 850nm / 0 ~ 500m, 1310nm / 0 ~ 2km; Single-mode (9/125 μm): 1310nm / 0 ~ 40km, 1550nm 0 ~ 120km.		
Chip Parameter			
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x		
Forwarding Mode	Store and forward (Full wire speed)		

SG1110-SCX-0

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Switching Capacity	2.0Gbps (Non-blocking)
Forwarding Rate@64byte	3.0Mpps
MAC	2K
Buffer Memory	1M
Jumbo Frame	1632byte
LED Indicator	Power: PWR (Green), ON/OFF, Data: L/A (Green): ON/OFF/Blink, Half/full duplex: FDX (Green) , ON/OFF, Speed: 100/1000 (Green) ,ON/OFF
Power Supply	
Total PWR / Input Voltage	3.5W/(5VDC)
Power Consumption	Standby<1W,Full Load<4W
Physical Parameter	
Operation TEMP / Humidity	-20~+55°C, 5%~90% RH Non condensing
Storage TEMP / Humidity	-40~+85°C, 5%~95% RH Non condensing
Dimension (L*W*H)	94*71*26mm
Net /Gross Weight	<0.3kg / <0.5kg
Installation	Desktop, 2U-14 Rack-mounted
Certification & Warranty	
Lightning Protection	Lightning protection: 4KV 8/20us, Protection level: IP30
Certification	CCC, CE mark, commercial, CE/LVD EN60950, FCC Part 15 Class B, RoHS
Warranty	3 years, lifelong maintenance.

