

SG0110-SCX-S2

10/100 Dual Port single fiber Media Converter



Functions

- Supports 100M RJ45 port and 155M SC 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 backpressure.
- Compatible with IEEE802.3u 100Base-TX/FX network protocol, 10/100M R45 port rate auto-negotiation
- Support full-duplex/half-duplex working mode with auto-negotiation function
- Automatic identification of twisted pair MDI/MDI-X cross lines and parallel lines
- 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

SG0110-SCX-S2 series is a 10/100M fiber media converter independently developed by Shogun. It has 2*10/100Base-TX ports and 1*155M uplink SC fiber port, User can select different optical modules, such as multi mode dual fiber, single-mode dual fiber, and single-mode single fiber. 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, and safe cities to form a cost-effective and stable communication Unmanaged model, plug and play, no configuration, easy to use.

Specification

Model	SG0110-MCX-S2	SG0110-SCX-S2	SG0110S-SCX-S2-A/B
Interface	2*10/100Base-TX RJ45 ports (Data) 1*155M uplink SC/LC fiber port (Data)		
Ethernet Port	10/100Base-TX auto-sensing, Full/half duplex MDI/MDI-X self-adaption		
Twisted Pair	10BASE-T: Cat3,4,5 UTP(≤100 meter)		
Transmission	100BASE-TX: Cat5 or later UTP(≤100 meter)		
Optical Fiber Port	155Mbps, multi mode dual fiber SC interface	155Mbps, single-mode single fiber SC interface WDM (1310/1550 nm)	155Mbps, single-mode single fiber SC interface WDM (1310/1550 nm)
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.		
Optical Sensitivity/ Optical Power	Receiver Sensitivity: -32dbm Output Power: -15 to -8 dbm		

Chip Parameter	
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T IEEE802.3u 100Base-TX, IEEE802.3u 100Base-FX, IEEE802.3x
Forwarding Mode	Store and Forward(Full Wire Speed)
Switching Capacity	1.0Gbps
Forwarding Rate@64byte	0.47Mpps
MAC	1K
Buffer Memory	768K
Jumbo Frame	1536byte
LED Indicator	Power: PWR (Green), LINK/ACT: L/A (Green), Single/duplex: FDX (Green), Fiber: FX (Green), Rate: TX 10/100M (Green)
Power	
Total PWR / Input Voltage	3.5 W/(5 VDC, 1-2 A)
Power Consumption	Standby<1W,Full Load<3.5W
Physical Parameter	
Operation TEMP / Humidity	-20~+60°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	<0.2kg / <0.4kg
Installation	Desktop, 2U-14 slot rack
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.