Product Datasheet

3-port Gigabit Single-mode Dual Fiber Media Converter

(1110-SCX-S2)

OVERVIEW

1110-SCX-S2 series is a gigabit fiber media converter. It has 2* 10/100/1000Base-T ports and 1*1000M uplink SC /LC fiber port, User can select different optical modules, such as multimode 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 network.

Unmanaged model, plug and play, no configuration, easy to use.

FEATURE

■ **Gigabit photoelectric Ethernet conversion transmission**

◇ All series supports 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 backpressure.

■ **Easy to use and simple to maintain**

◇ Compatible with IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X network protocol, gigabit 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.
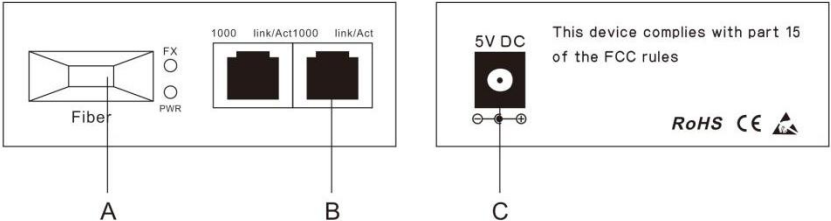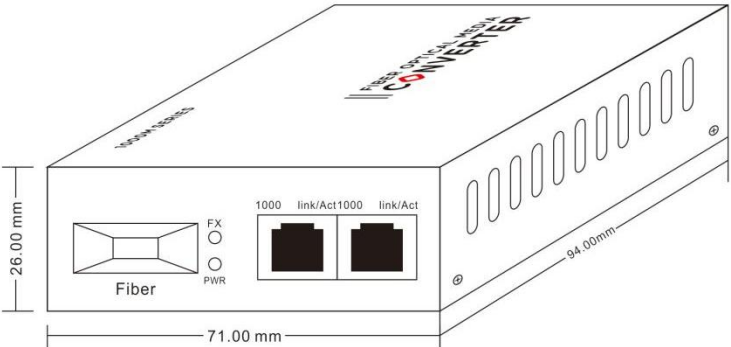
■ **Stable and reliable**

◇ Low power consumption, No fan, galvanized steel casing.

◇ CCC,CE, FCC, RoHS.

◇ Comply with telecommunication network access requirements, and have the telecommunications equipment network access license of the MIIT.

TECHNICAL SPECIFICATION

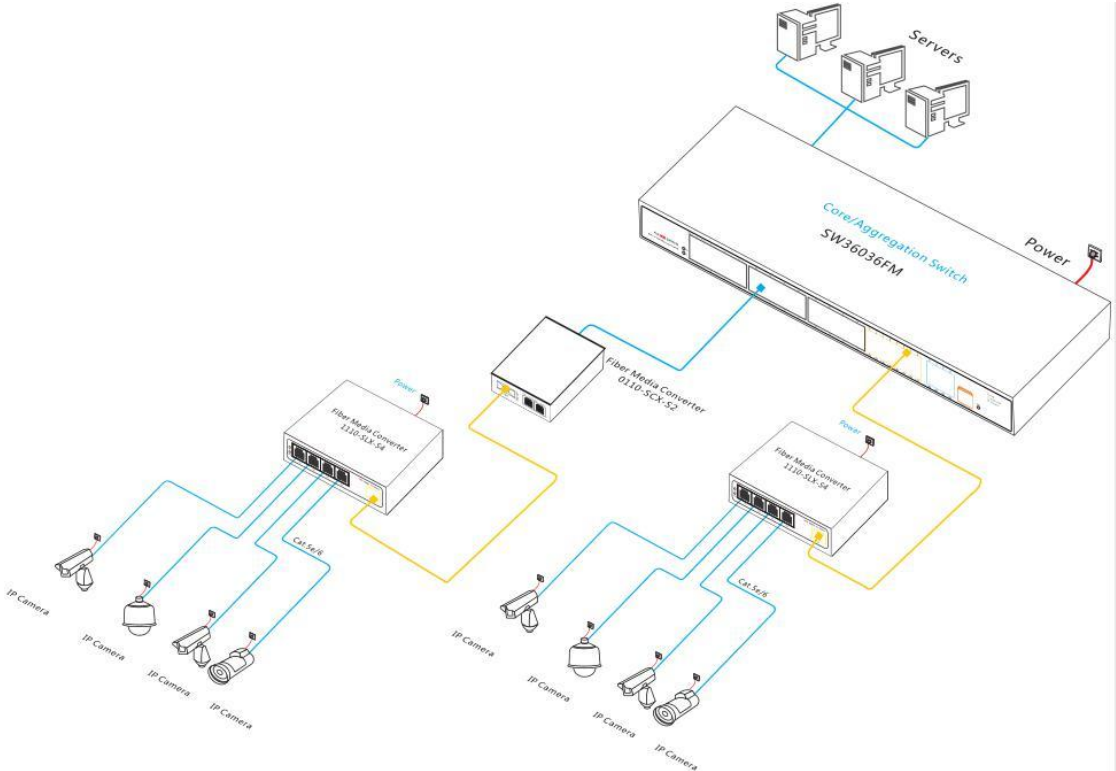| Model	1110-MCX-S2	1110-SCX-S2	1110S-SCX-S2
Interface Characteristics			
Interface	2* 10/100/1000Base-T ports (Data) 1*1000M uplink SC/LC fiber port (Data)		
Ethernet Port	10/100/1000Base-T,auto-sensing,Full/half duplex MDI/MDI-X self-adaption		
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-TX: Cat5 or later UTP(≤100 meter) 1000BASE-T: Cat5e or later UTP(≤100 meter)		
Optical Fiber Port	1.25Gbps, multimode dual fiber SC interface	1.25Gbps,single-mode dual fiber SC interface	1.25Gbps,single-mode single fiber SC interface
Optical Cable/ Distance	multimode: 850nm / 0 ~ 500m	single mode: 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)		
Switching Capacity	3.0Gbps		
Forwarding Rate@64byte	4.46Mpps		
MAC	2K		
Buffer Memory	1M		
Jumbo Frame	1632byte		
LED Indicator	Power: PWR (green), ON/OFF, Data: L/A (green); ON/OFF/Blink, Single / duplex: FDX (green) , ON/OFF, rate: 100/1000 (green) ,ON/OFF		

Power	
Total PWR / Input Voltage	5W/ (5VDC)
Power Consumption	Standby<1W,Full Load<5W
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 slot rack
Certification & Warranty	
Lightning protection / protection level	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.

DIMENSION

A.1*1000M SC fiber port B. 2* 10/100/1000M RJ45 ports C. DC5V power input port

APPLICATION

ORDERING INFORMATION

Model	Description
1110-MCX-S2	Gigabit **multimode dual fiber** media converter with 2*10/100/1000M RJ45 ports and 1*1.25G SC fiber port. Total power is 5W, 850nm wavelength, default transmission distance 0-500m. External power supply.
1110-SCX-S2	Gigabit **single-mode dual fiber** media converter with 2*10/100/1000M RJ45 ports and 1*1.25G SC fiber port. Total power is 5W, 1310nm wavelength, default transmission distance 0-20km. External power supply.
1110S-SCX-S2-A	Gigabit **single-mode single fiber** media converter with 2*10/100/1000M RJ45 ports and 1*1.25G SC fiber port. Total power is 5W, 1310nm wavelength, default transmission distance 0-20km. External power supply.
1110S-SCX-S2-B	Gigabit **single-mode single fiber** media converter with 2*10/100/1000M RJ45 ports and 1*1.25G SC fiber port. Total power is 5W, 1550nm wavelength, default transmission distance 0-20km. External power supply.

PACKING LIST

PACKING LIST	CONTENT	QTY	UNIT
	3-port gigabit single-mode dual fiber media converter	1	SET
	User Guide	1	PC
	Warranty Card	1	PC