



FIBER CABLES AND ACCESSORIES

Product Datasheet

1-port 10/100M Single-mode Dual Fiber Media Converter

(0110-SCX-O)



OVERVIEW

0110-SCX-O series is a 10/100M fiber media converter. It has 1* 10/100Base-TX port and 1*155M uplink SC 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.



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FEATURE

■ 10/100M photoelectric Ethernet conversion transmission

- ◇ All series supports 100M RJ45 port and 155M 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 IEEE802.3u 100Base-TX/FX network protocol, 10/100M RJ45 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.



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TECHNICAL SPECIFICATION

Model	0110-MCX-O	0110-SCX-O	0110S-SCX-O-A/B
Interface Characteristics			
Interface	1* 10/100Base-TX RJ45 port (Data) 1*155M uplink SC fiber port (Data)		
Ethernet Port	10/100Base-TX,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)		
Optical Fiber Port	155Mbps, multimode dual fiber SC interface	155Mbps,single-mode dual fiber SC interface	155Mbps,single-mode single fiber SC interface
Optical Cable/ Distance	multimode: 850nm / 0 ~ 500m, 1310nm / 0 ~ 2km; single mode: 1310nm / 0 ~ 40km, 1550nm 0 ~ 120km.		
Chip Parameter			
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T IEEE802.3u 100Base-TX, IEEE802.3u 100Base-FX IEEE802.3x		
Forwarding Mode	Store and Forward(Full Wire Speed)		
Switching Capacity	1.0Gbps		
Forwarding Rate@64byte	0.3Mpps		
MAC	1K		
Buffer Memory	768K		
Jumbo Frame	1536byte		
LED Indicator	Power: PWR (green), Data: L/A (green), Single / duplex: FDX (green) ,		



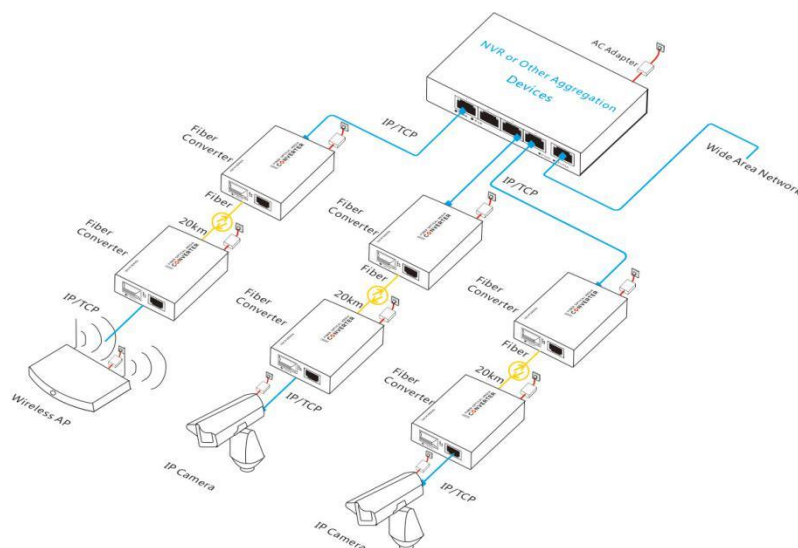
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	Fiber :FX(green), rate: 10/100 (green)
Power	
Total PWR / Input Voltage	3W/ (5VDC)
Power Consumption	Standby<1W,Full Load<3W
Physical Parameter	
Operation TEMP / Humidity	-20~+55°C;5%~90% RH Non condensing
Storage TEMP / Humidity	-40~+85°C;5%~95% RH Non condensing
Dimension (L*W*H)	94*71*26mm
Net /Gross Weight	<0.2kg / <0.4kg
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.



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APPLICATION



ORDERING INFORMATION

Model	Description
0110-MCX-O	10/100M multimode dual fiber media converter with 1*10/100M RJ45 port and 1*155M SC fiber port. Total power is 3W, 850nm/1310nm, default transmission distance 0-2km. External power supply.



FIBER CABLES AND ACCESSORIES

0110-SCX-O	10/100M single-mode dual fiber media converter with 1*10/100M RJ45 port and 1*155M SC fiber port. Total power is 3W, 1310nm, default transmission distance 0-20km. External power supply.
0110S-SCX-O-A	10/100M single-mode single fiber media converter with 1*10/100M RJ45 port and 1*155M SC fiber port. Total power is 3W, 1310nm/1550nm, default transmission distance 0-20km. External power supply.
0110S-SCX-O-B	10/100M single-mode single fiber media converter with 1*10/100M RJ45 port and 1*155M SC fiber port. Total power is 3W, 1310nm/1550nm, default transmission distance 0-20km. External power supply.

PACKING LIST

PACKING LIST	CONTENT	QTY	UNIT
	1-port 10/100M single-mode dual fiber media converter	1	SET
	User Guide	1	PC
	Warranty Card	1	PC