Product Datasheet

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

(ONV0110-SCX-S2)

OVERVIEW

The ONV0110-SCX-S2 is a 10/100M fiber media converter independently developed by ONV. 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 network. Unmanaged model, plug and play, no configuration, easy to use.

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FEATURE

■ **10/100M photoelectric Ethernet conversion transmission**

◇ Support non-blocking wire-speed forwarding.

◇ Support full-duplex based on IEEE 802.3x and half-duplex based on Backpressure.

◇ Support 100M RJ45 port and 155M SC fiber port combination, which enables users to flexibly build networking to meet the needs of various scenarios.

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

◇ Support full-duplex/half-duplex working mode with auto-negotiation function.

◇ Automatic identification of twisted pair MDI/MDI-X cross lines and parallel lines.

◇ LED working status indication for network diagnosis and fault checking, reducing maintenance workload.

◇ Compatible with IEEE 802.3u 100Base-TX/FX network protocol, 10/100M R45 port rate auto-negotiation.

◇ Plug and play, no configuration required, centralized power supply and centralized connection management through 2U-14 slot rack.

■ **Stable and reliable**

◇ CCC, CE, FCC, RoHS.

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

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

TECHNICAL SPECIFICATION

Model	ONV0110-MCX-S2	ONV0110-SCX-S2	ONV0110S-SCX-S2-A/B
Interface Characteristics			
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 Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meters) 100BASE-TX: Cat5 or later UTP(≤100 meters)		
Optical Fiber Port	155Mbps, multi-mode dual fiber SC interface	155Mbps,single-mode dual fiber SC interface	155Mbps,single-mode single fiber SC interface
Optical Cable/ Distance	Multi-mode: 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, IEEE802.3u 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), Data: L/A (Green), Single/duplex: FDX (Green) Fiber: FX (Green), Rate:10/100M(Green)		
Power Supply			
Total PWR / Input Voltage	3.5W/ (5VDC)		

Power Consumption	Standby<1W, Full Load<3.5W
Physical Parameter	
Operation TEMP / Humidity	-20°C~+55°C, 5%~90% RH Non condensing
Storage TEMP / Humidity	-40°C~+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 EN62368-1, FCC Part 15 Class B, RoHS
Warranty	3 years, lifelong maintenance.

ORDERING INFORMATION

Model	Description
ONV0110-MCX-S2	10/100M **multi-mode dual fiber** media converter with 2*10/100M RJ45 ports and 1*155M SC fiber port. Total power is 3.5W. 850nm/ 1310nm wavelength, transmission distance 0-2Km. External power supply.
ONV0110-SCX-S2	10/100M **single-mode dual fiber** media converter with 2*10/100M RJ45 ports and 1*155M SC fiber port. Total power is 3.5W. 1310nm wavelength, transmission distance 0-20km. External power supply.
ONV0110S-SCX-S2-A	10/100M **single-mode single fiber** media converter with 2*10/100M RJ45 ports and 1*155M SC fiber port. Total power is 3.5W. 1310nm/ 1550nm wavelength, transmission distance 0-20km. External power supply.

ONV0110S-SCX-S2-B	10/100M **single-mode single fiber** media converter with 2*10/100M RJ45 ports and 1*155M SC fiber port. Total power is 3.5W. 1310nm/ 1550nm wavelength, transmission distance 0-20km. External power supply.

PACKING LIST

	Content	Qty	Unit
Packing List	3-port 10/100M single-mode dual fiber media converter	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

CONTACT US

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