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. Users 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 Realtek 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

■ **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.
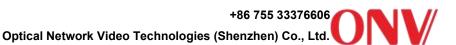
■ **Easy to use**

◇ 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, 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 housing, and excellent heat dissipation ensure stable operation of the product.

TECHNICAL SPECIFICATION

Model	ONV0110-MCX-S2	ONV0110-SCX-S2	ONV0110S-SCX-S2-A/B
Interface Characteristics			
Interface	1*155M uplink SC fiber port (Data) 2*10/100Base-TX RJ45 ports (Data)		
Ethernet Port	Port 1-2 can support 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	155M multi-mode dual fiber SC interface	155M single-mode dual fiber SC interface	155M single-mode single fiber SC interface

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Optical Cable/ Distance	Multi-mode: 850nm/ 0-550m, 1310nm/ 0-2km	Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km

Chip Parameter

Network Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3u 100Base-FX, IEEE 802.3x
Forwarding Mode	Store and Forward (Full Wire Speed)
Switching Capacity	1.0Gbps (non-blocking)
Forwarding Rate @64byte	0.47Mpps
MAC	1K
Buffer Memory	768K
LED Indicator	Power: PWR (Green), Network: L/A (Green), Single/ duplex: FDX (Green), Rate:10/100M(Green), Fiber port: FX (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)	106.7*72*26mm
Net /Gross Weight	0.2kg / 0.35kg
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

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ORDERING INFORMATION

Model	Description
ONV0110-MCX-S2	Multi-mode dual fiber media converter with 2*10/100M RJ45 ports and 1*155M SC fiber port. 850nm/ 0-550m, 1310nm/ 0-2km. Total power is 4W. External power supply.
ONV0110-SCX-S2	Single-mode dual fiber media converter with 2*10/100M RJ45 ports and 1*155M SC fiber port. 1310nm/ 0-20km. Total power is 4W. External power supply.
ONV0110S-SCX-S2-A	Single-mode single fiber media converter with 2*10/100M RJ45 ports and 1*155M SC fiber port. 1310nm/0-20km. Total power is 4W. External power supply.
ONV0110S-SCX-S2-B	Single-mode single fiber media converter with 2*10/100M RJ45 ports and 1*155M SC fiber port. 1550nm/0-20km. Total power is 4W. External power supply.

PACKING LIST

	Content	Qty	Unit
Packing List	3-port 10/100M single-mode dual fiber media converter	1	Set
	Power Adapter 5V/1A	1	PC
	User Guide	1	PC
	Warranty Card and Certificate of Conformity	1	PC

CONTACT US

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