

Product Datasheet

5-port 10/100M Single-mode Dual Fiber Media Converter (ONV0110-SCX-S4)



OVERVIEW

The ONV0110-SCX-S4 is a 10/100M fiber media converter independently developed by ONV. It has 4*10/100Base-TX RJ45 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 enterprise-level telecom-grade chip solutions with stable performance, excellent 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 mode, 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 155 SC fiber port combination, which enables users to flexibly

build networking to meet the needs of various scenarios.

■ Easy to use

- ◇ 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.

■ 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-S4	ONV0110-SCX-S4	ONV0110S-SCX-S4-A/B
Interface Characteristics			
Interface	1*155M uplink SC fiber port (Data) 4*10/100Base-TX RJ45 ports (Data)		
Ethernet Port	Port 1-4 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
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
Forwarding Rate @64byte	0.47Mpps
MAC	1K
Buffer Memory	2K
LED Indicator	Power: PWR (Green), Network: Link (Green), Fiber port: FX (Green)
Power Supply	
Total PWR/ Input Voltage	4W/ 5VDC
Power Consumption	Standby<3W, Full Load<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)	134mm*82mm*27mm
Net /Gross Weight	<0.6kg/<0.8kg
Installation	Desktop
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.

DIMENSION

APPLICATION

ORDERING INFORMATION

Model	Description
ONV0110-MCX-S4	Multi-mode dual fiber media converter with 4*10/100M RJ45 ports and 1*155M SC fiber port. Total power is 4W. 850nm/ 0-550m, 1310nm/ 0-2km. External power supply.
ONV0110-SCX-S4	Single-mode dual fiber media converter with 4*10/100M RJ45 ports and 1*155M SC fiber port. Total power is 4W. 1310nm/ 0-20km. External power supply.
ONV0110S-SCX-S4-A	Single-mode single fiber media converter with 4*10/100M RJ45 ports and 1*155M SC fiber port. Total power is 4W. 1310nm/ 0-20km. External power supply.
ONV0110S-SCX-S4-B	Single-mode single fiber media converter with 4*10/100M RJ45 ports and 1*155M SC fiber port. Total power is 4W. 1550nm/0-20km. External power supply.

PACKING LIST

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

CONTACT US



Optical Network Video Technologies (Shenzhen) Co., Ltd.

Tel: 0086-755-33376606

Fax: 0086-755-33376608

WeChat: ONV-PoE-IoT

Email: onv@onv.com.cn



Skype: [onv@onv.com.cn](https://www.skype.com/people/onvcomcn)

Website: www.onvcom.com

Headquarter Address: Room 1003, Block D, Terra Building, Futian District, Shenzhen

Factory Address: Building B3, Galaxy Artificial Intelligence Industrial Park, No. 333, Zhongkai 6th Road, Chenjiang Street, Zhongkai High-tech Zone, Huizhou

