

## Product Datasheet

# 3-port Gigabit Single-mode Dual Fiber Media Converter (ONV1110-SCX-S2)



## OVERVIEW

The ONV1110-SCX-S2 is a Gigabit fiber media converter independently developed by ONV. It has 2\*10/100/1000Base-T RJ45 ports and 1\*1.25G 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, smart 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

- ◇ Support non-blocking wire-speed forwarding.
- ◇ Support full-duplex based on IEEE 802.3x and half-duplex based on Backpressure.

- ◇ Support Gigabit RJ45 port and 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.
- ◇ Plug and play, no configuration, centralized power supply, and centralized connection management through 2U-14 slot rack.
- ◇ Compatible with IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-X network protocol, gigabit RJ45 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	ONV1110-MCX-S2	ONV1110-SCX-S2	ONV1110S-SCX-S2-A/B
<b>Interface Characteristics</b>			
Interface	1*1000M uplink SC fiber port (Data) 2*10/100/1000Base-T RJ45 ports (Data)		
Ethernet Port	Port 1-2 can support 10/100/1000Base-T 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) 1000BASE-T: Cat5e or later UTP (≤100 meters)		
Optical Fiber Port	1.25G multi-mode dual	1.25G single-mode dual	1.25G single-mode single

	fiber SC interface	fiber SC interface	fiber SC interface
Optical Cable/ Distance	Multi-mode: 850nm/ 0-550m	Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km	
<b>Chip Parameter</b>			
Network Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-X, IEEE 802.3x		
Forwarding Mode	Store and Forward (Full Wire Speed)		
Switching Capacity	3.0Gbps (non-blocking)		
Forwarding Rate @64byte	4.46Mpps		
MAC	2K		
Buffer Memory	1M		
LED Indicator	Power: PWR (Green), Network: L/A (Green), Single/duplex: FDX (Green), Rate: 100/1000 (Green)		
<b>Power Supply</b>			
Total PWR/ Input Voltage	5W/ (5VDC)		
Power Consumption	Standby<1W, Full Load<5W		
<b>Physical Parameter</b>			
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	0.3kg/ 0.45kg		
Installation	Desktop, 2U-14 slot rack		
<b>Certification &amp; Warranty</b>			
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
ONV1110-MCX-S2	Gigabit <b>multi-mode dual fiber</b> media converter with 2*10/100/1000M RJ45 ports and 1*1.25G SC fiber port. 850nm/ 0-550m. Total power is 5W. External power supply.
ONV1110-SCX-S2	Gigabit <b>single-mode dual fiber</b> media converter with 2*10/100/1000M RJ45 ports and 1*1.25G SC fiber port. 1310nm/ 0-20km. Total power is 5W. External power supply.
ONV1110S-SCX-S2-A	Gigabit <b>single-mode single fiber</b> media converter with 2*10/100/1000M RJ45 ports and 1*1.25G SC fiber port. 1310nm/0-20km. Total power is 5W. External power supply.
ONV1110S-SCX-S2-B	Gigabit <b>single-mode single fiber</b> media converter with 2*10/100/1000M RJ45 ports and 1*1.25G SC fiber port. 1550nm/0-20km. Total power is 5W. External power supply.

## PACKING LIST

	Content	Qty	Unit
Packing List	3-port Gigabit 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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