

Product Datasheet

2-port Gigabit Single-mode Dual Fiber Media Converter (ONV1110-SCX-O)



OVERVIEW

The ONV1110-SCX-O is a Gigabit fiber media converter independently developed by ONV. It has 1*10/100/1000Base-T RJ45 port 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 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

■ 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 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.
- ◇ Plug and play, no configuration, centralized power supply and centralized connection management through 2U-14 slot rack.
- ◇ Compatible with IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X network protocols, port 10/100/1000M 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-O	ONV1110-SCX-O	ONV1110S-SCX-O-A/B
Interface Characteristics			
Fixed Port	1*10/100/1000Base-T RJ45 port (Data) 1*1.25G uplink SC fiber port (Data)		
Ethernet Port	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	Multi-mode dual fiber SC port	Single-mode dual fiber SC port	Single-mode single fiber SC port

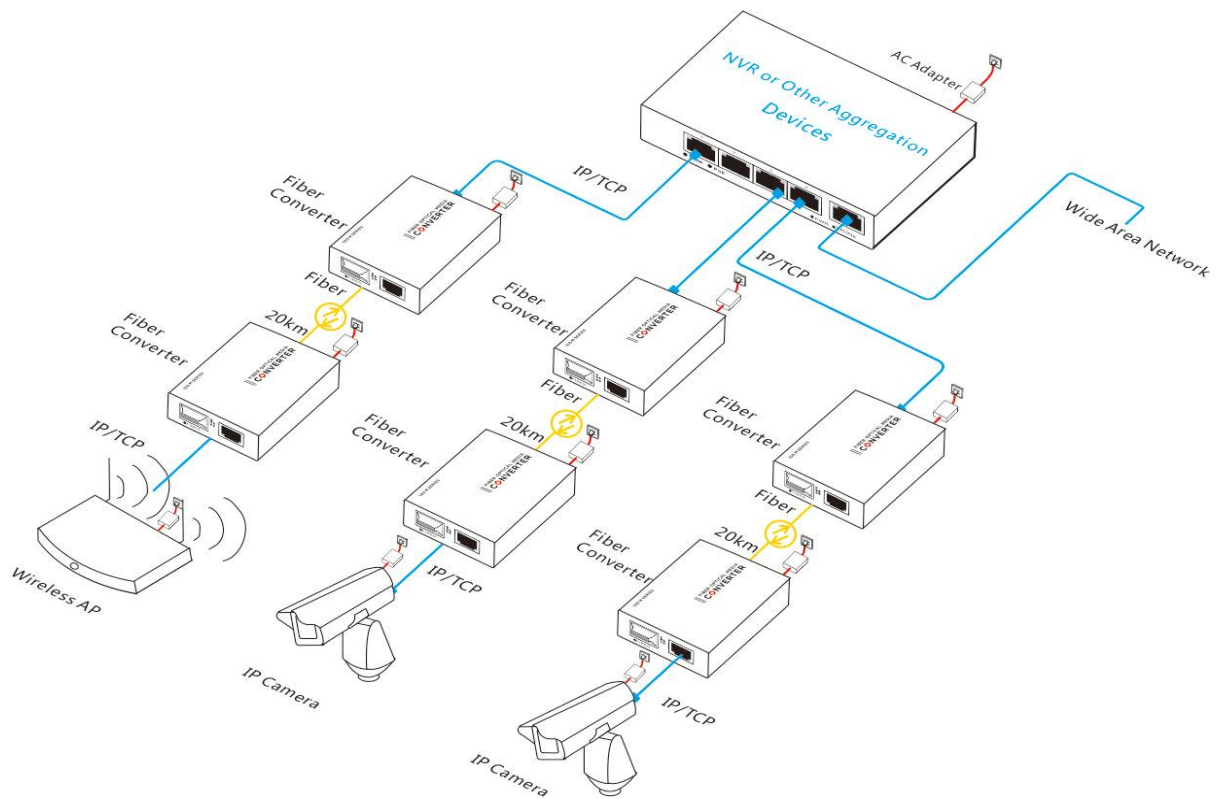
Optical Cable/ Distance	Multi-mode: 850nm/ 0-550m, 1310nm/ 0-2km, Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km
Chip Parameter	
Network Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-X, IEEE 802.3x
Forwarding Mode	Store and forward (Full wire speed)
Switching Capacity	2.0Gbps (non-blocking)
Forwarding Rate @64byte	3.0Mpps
MAC	2K
Buffer Memory	1M
Jumbo Frame	1632byte
LED Indicator	Power: PWR (Green), Data: L/A (Green), Half/full duplex: FDX (Green), Rate: 100/1000 (Green)
Power Supply	
Total PWR/ Input Voltage	3.5W/5VDC
Power Consumption	Standby<1W, Full Load<4W
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	0.3kg/ 0.45kg
Installation	Desktop, 2U-14 rack mount
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
ONV1110-MCX-O	Gigabit multi-mode dual fiber media converter with 1*10/100/1000M RJ45 port and 1*1.25G SC fiber port. 850nm/ 0-550m. Total power is 4W. External power supply.
ONV1110-SCX-O	Gigabit single-mode dual fiber media converter with 1*10/100/1000M RJ45 port and 1*1.25G SC fiber port. 1310nm/ 0-20km. Total power is 4W. External power supply.
ONV1110S-SCX-O-A	Gigabit single-mode single fiber media converter with 1*10/100/1000M RJ45 port and 1*1.25G SC fiber port. 1310nm/ 0-20km. Total power is 4W. External power supply.
ONV1110S-SCX-O-B	Gigabit single-mode single fiber media converter with 1*10/100/1000M RJ45 port and 1*1.25G SC fiber port. 1550nm/0-20km. Total power is 4W. External power supply.
ONV1110-MLX-F	Gigabit multi-mode dual fiber media converter with 1*10/100/1000M RJ45 port and 1*1.25G SFP fiber port. 850nm/ 0-550m. Total power is 4W. External power supply.
ONV1110-SLX-F	Gigabit single-mode dual fiber media converter with 1*10/100/1000M RJ45 port and 1*1.25G SFP fiber port. 1310nm/ 0-20km. Total power is 4W. External power supply.
ONV1110S-SLX-A	Gigabit single-mode single fiber media converter with 1*10/100/1000M RJ45 port and 1*1.25G SFP fiber port. 1310nm/ 0-20km. Total power is 4W. External power supply.
ONV1110S-SLX-B	Gigabit single-mode single fiber media converter with 1*10/100/1000M RJ45 port and 1*1.25G SFP fiber port. 1550nm/0-20km. Total power is 4W. External power supply.

PACKING LIST

	Content	Qty	Unit
Packing List	2-port Gigabit single-mode dual fiber media converter	1	Set
	User Guide	1	PC
	Warranty Card and Certificate of Conformity	1	PC

CONTACT US

ONV 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

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

