Product Datasheet

2-port 10/100M Fiber Media Converter
(ONV0110-MCX-O)

OVERVIEW

The ONV0110-MCX-O is a 10/100M fiber media converter independently developed by ONV. It has 1*10/100Base-TX RJ45 port 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 mode, plug, and play, no configuration, easy to use.

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FEATURE

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

◇ Support non-blocking wire-speed forwarding.

◇ Support full-duplex based on IEEE802.3x 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-16 slot rack.

TECHNICAL SPECIFICATION

Model	ONV0110-MCX-O	ONV0110-SCX	ONV0110S-SCX-A/B
Interface Characteristics			
Interface	1*10/100Base-TX RJ45 port (Data) 1*155M uplink SC 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 port	155Mbps, single-mode dual fiber SC port	155Mbps, single-mode single fiber SC port
Optical Cable/	Multi-mode: 850nm/	Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km	

Distance	0-500m, 1310nm/ 0-2km
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	0.3Mpps
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: 10/100 (Green)
Power Supply	
Power Supply	Centralized power supply by 16-slot 2U rack
Single Board Power / Input Voltage	3W/ (5VDC)
Single Board Power Consumption	Standby<1W,Full Load<3W
Physical Parameter	
Operation TEM / 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)	100*80*3mm
Net Weight	<0.03kg
Installation	Must be installed and used with 2U-16 slot rack
Certification & Warranty	

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Lightning Protection	Port 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-O	10/100M **multi-mode dual fiber** media converter with 1*10/100M RJ45 port and 1*155M SC fiber port. 850/1310nm/ 0-2km, with 16 slot 2U rack.
ONV0110-SCX	10/100M **single-mode dual fiber** media converter with 1*10/100M RJ45 port and 1*155M SC fiber port. 1310nm/0-20km. with 16 slot 2U rack.
ONV0110S-SCX-A	10/100M **single-mode single fiber** media converter with 1*10/100M RJ45 port and 1*155M SC fiber port. 1310nm/1550nm/0-20km. with 16 slot 2U rack.
ONV0110S-SCX-B	10/100M **single-mode single fiber** media converter with 1*10/100M RJ45 port and 1*155M SC fiber port. 1310nm/1550nm/0-20km. with 16 slot 2U rack.

CONTACT US

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