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Mooncell

FOT16-M

Fiber Optic Converter

Specification V4.0

CONTENT

1 Update Records

Document version	Hardware version	Release time	Update record
V4.0	V1.0.1	August 7(nd), 2025	First release of document

2 Product Introduction

The FOT16-M is a cost-effective fiber optic converter device developed by Mooncell. It facilitates bidirectional conversion between optical and electrical signals between sending cards/main controllers/video processors and receiving cards, enabling full-duplex, high-efficiency, and stable data transmission. Designed for long-distance signal transmission scenarios.

3 Product Features

3.1 Fiber Optic Interface

- 2 fiber optic interfaces, single interface bandwidth 10Gbit/s

  Each fiber interface corresponds to 8 Gigabit Ethernet ports: First fiber interface: Ports 1-8

  Second fiber interface: Ports 9-16 , Fiber interfaces operate independently without interference
- Supports hot-swappable fiber modules

3.2 Gigabit Ethernet port

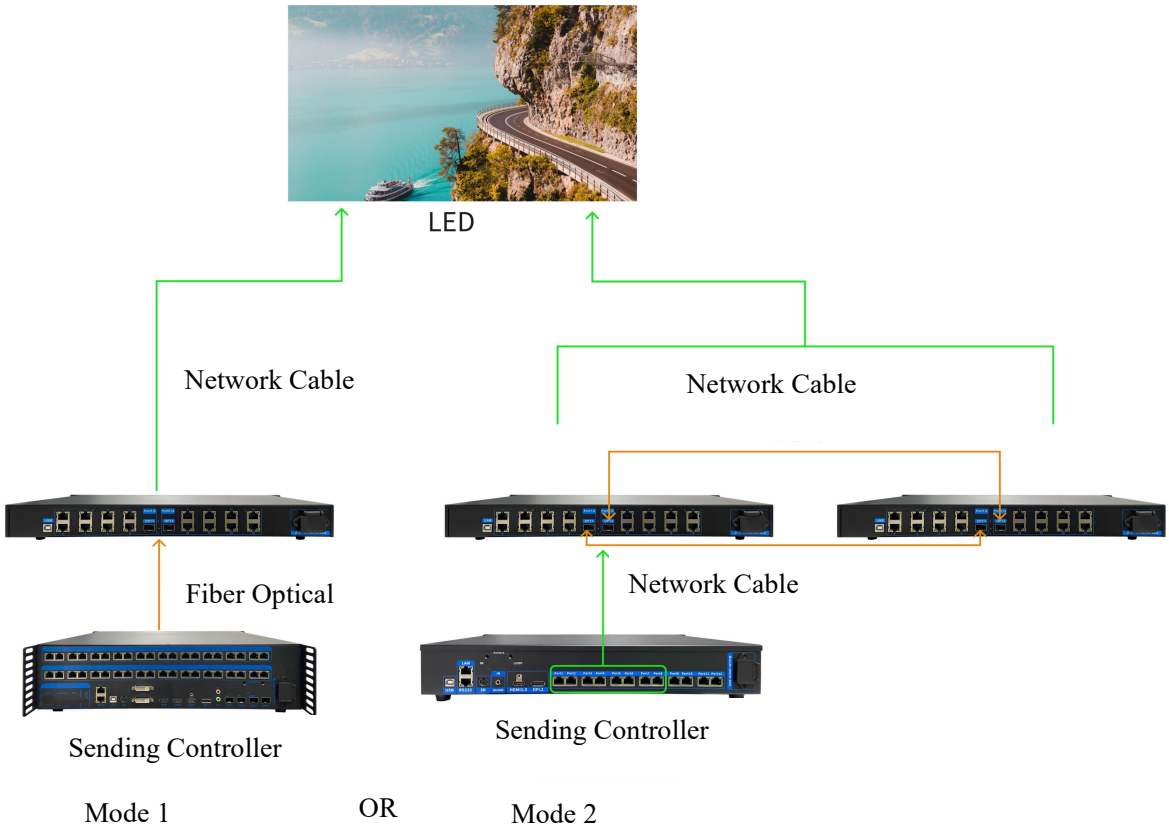
- 16 Gigabit Ethernet ports, single port bandwidth 1Gbit/s
  - Fiber converter (transmitter) and fiber converter (receiver) port numbers correspond for simplified cabling
  - Port 1 (TX) ↔ Port 1 (RX) , Port 2 (TX) ↔ Port 2 (RX) ... (Port 3-16 follow identical mapping)
  - Direct port-to-port connection eliminates complex configuration

3.3 Practical Functions

- 1U chassis for easy installation
- Fiber interfaces require no configuration—automatically adapts optical signal transceiver functionality based on fiber and Ethernet cable connections

4 Wiring Topology Diagram

Applied to scenarios involving long-distance signal transmission.



5 Product Appearance

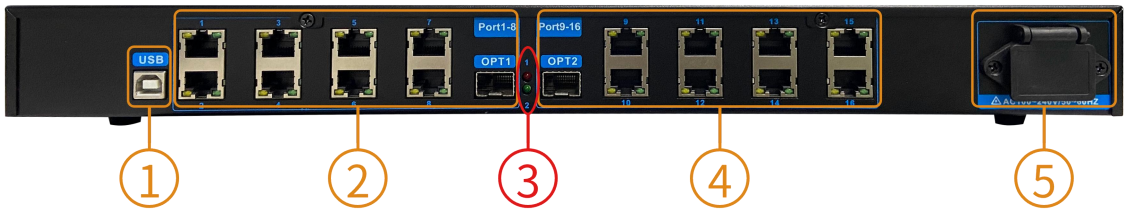
Front Panel

*Product images are for reference only. The actual product shall prevail upon purchase.

5.1 Data Interface Illustration

#	Name	Illustration
1	Power switch	Converter Power switch

Rear Panel

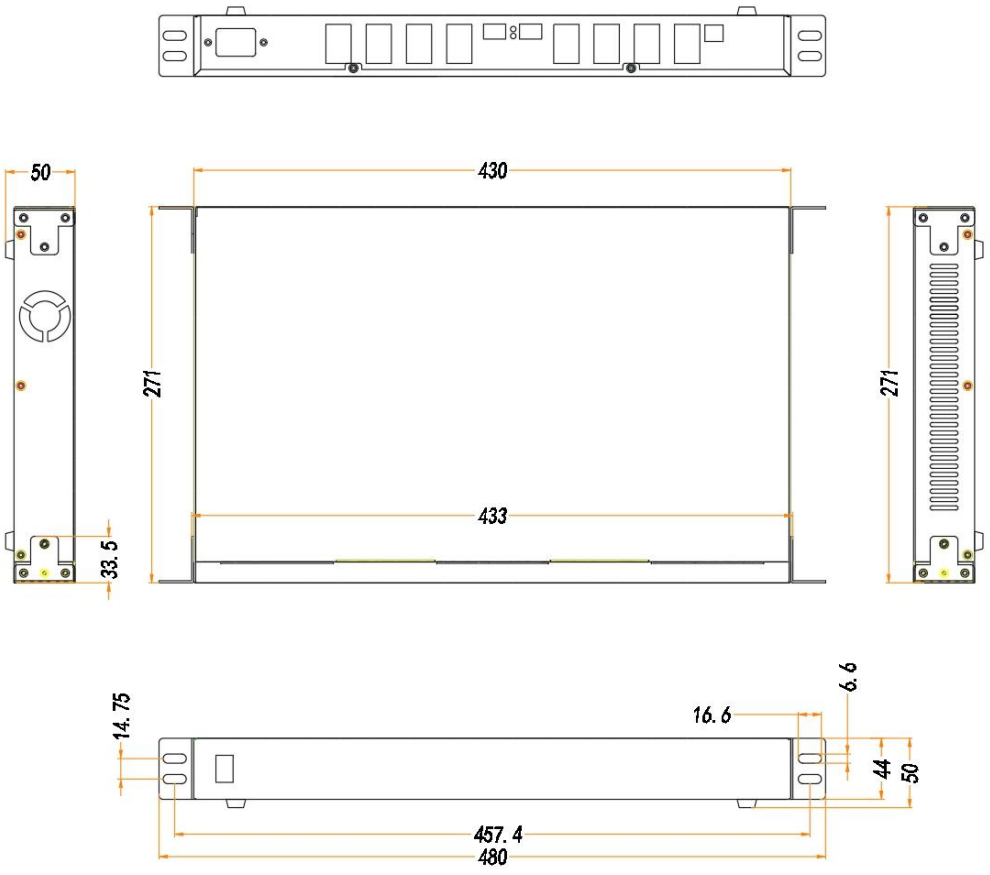


*Product images are for reference only. The actual product shall prevail upon purchase.

Input/Output Interface			
#	Interface	QTY	Illustration
2	Gigabit Ethernet port	1~8	OPT1 corresponds to Ethernet ports 1 through 8; each fiber port supports 10Gbit/s bandwidth.
	Fiber optic interface	1	
4	Gigabit Ethernet port	9~16	OPT2 corresponds to Ethernet ports 9 through 16; each fiber port supports 10Gbit/s bandwidth.
	Fiber optic interface	1	

Indicator Illustration			
#	Interface	QTY	Illustration
3	Indicator	2	1: Steady light indicates OPT1 fiber interface is connected normally 2: Steady light indicates OPT2 fiber interface is connected normally 1: Steady light indicates OPT1 fiber interface is connected normally.
Control Interface			
#	Indicator	QTY	Illustration
1	USB	1	USB (square) connects to PC
Power Supply Interface			
#	Interface	QTY	Illustration
1	Power Supply	1	AC-100-240V~50/60Hz AC Power Interface

5.2 Dimension



Tolerance：±0.3 Unit：mm

6 Product Specification

6.1 Specification

Electrical Parameters	Rated voltage	AC-100-240V-50/60HZ
	Rated power	30W
Operating Environment	Operating temperature	-20℃ - 70℃
	Working humidity	0%RH～80%RH, non-condensing
Dimensions	480×271×50mm	
Net Weight	2.89Kg	
Gross Weight per Unit	3.86Kg	
Packaging Method	3PCS/Carton	
Outer Carton Dimensions	515×130×355mm	
Accessories	1× Power Cord, 1× USB Cable, 2× Fiber Optic Modules, 1× LC-LC Fiber Optic Cord, 1× Certificate of Conformity	
Single-mode Fiber (Dual-core)	20KM	
Fiber Optic Interface	LC	

7 Precautions

- High voltage hazard: This product operates at AC 100V~240V.
- Do not allow liquids or metal fragments and other conductive materials to enter the device, to prevent safety accidents.
- Please use the device in a dry and clean environment

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