# Mooncell

# FOT08 Optical Fiber Converter

## Specification V3.0

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# 1 Product Overview

## Product Introduction

**FOT08 is a cost-effective optical fibre converter launched by Mooncell.It performs mutual conversion between optical signals and electrical signals between the sending card/main control/video processor and the receiving card. Full-duplex high-efficiency and stable data transmission is suitable for scenarios of long-distance signal transmission.It has 8 physically isolated 1000Mbps full-duplex RJ45 ports and 1x 10G SFP+ optical port. Using high-speed TDM technology, each network occupies a separate gigabit transmission channel, thus completely eliminating the mutual crosstalk of various subsystems in the monitoring system, and is suitable for long-distance transmission of various data such as high-definition video signals.**
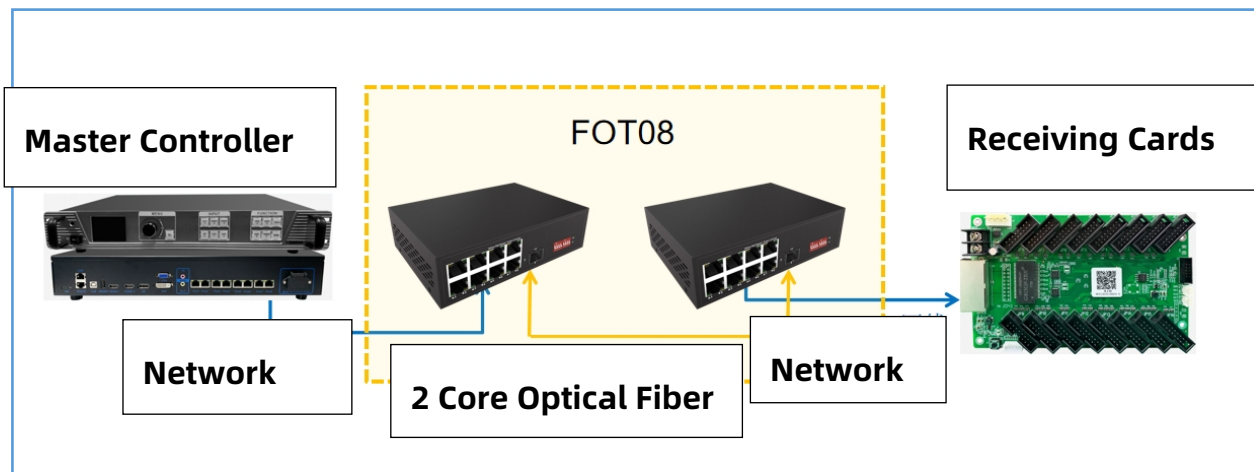
## Product Features

➢ **1*optical fiber interfaces, factory-configured optical fiber module, the bandwidth of a single optical fiber interface is 10Gbit/s**

➢ **Fiber module supports hot swap(plug and play)**

➢ **8x Gigabit Ethernet ports, with a single Ethernet port bandwidth of 1Gbit/s**

➢ **The serial number of the optical fiber converter (sender) and the**

optical fiber converter (receiver) correspond to the connection of the network port, and the connection is easy.

➢ **Each network occupies a separate Gigabit transmission channel and does not interfere with each other**

➢ **There's no need for any driver, no need to set up, just connect to use.**

## Application Scenarios

It is applied to the scene of long-distance transmission of signals.

| Master Controller | FOT08 | Receiving Cards |
|---|---|---|
| Network | 2 Core Optical Fiber | Network |

# 2 Product Parameters

## Hardware Introduction

| Interface | |
|---|---|
| Interface | 8*100/1000 Base-T +1* 10GBase-X |
| Power Port | DC Port (2.5mm) |
| LED Indicator | P：Power Status Indicator <br><br> M：Chip read and write abnormal alarm |
| Fiber interface | LC |
| Watchdog | Supported |

# 3 Product Specifications

## Specifications

| | |
|---|---|
| Twisted Pair | 0-100m（CAT5e,CAT6） |
| Single Mode fiber(Dual | 20KM |
| Input Voltage | DC5-16V |
| Power Consumption | ≤5W |
| Operation Temperature | -30℃~+70℃ |
| Storage/Transport | -40℃~+70℃ |
| Relative humidity | 5%~95% No condensing |
| Cooling method | Fan-less design, natural heat dissipation |
| Dimensions | 152*115*44mm（LxWxH） |
| Installation method | desktop installation |
| Net Weight | 0.6KG |
| Accessories | The fibre equipment, certificate, manual, dust |

## Precautions

● **High voltage danger: The working voltage of this product is AC -100V ~ 240V.**

● **It is forbidden to immerse conductive objects such as liquid and metal fragments into the equipment to avoid safety accidents.**

● **Please use the device in a dry and clean environment.**