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MFC8

FIBER CONVERTER

DESCRIPTION

The MFC8 fiber converter offers a cost-effective way to convert optical signals to electrical signals, or electrical signals to optical signals, for connecting the sending card to the LED display. Delivering a full-duplex, efficient and stable data transmission that is not easily interfered with, this converter is ideal for long-distance transmission.

The MFC8 hardware design focuses on the practicality and convenience of the on-site installation. It can be mounted horizontally, in a suspended way, or rack mounted, which is easy, secure and reliable. For rack mounting, two MFC8 devices, or one MFC8 device and a connecting piece can be combined into one assembly that is 1U in width.

FEATURES

- Models include the MFC8-SM (single-mode) and the MFC8-MM (multi-mode).
- 2x optical ports with hot-swappable optical modules installed at the factory, bandwidth of each up to 10 Gbit/s
- 10x Gigabit Ethernet ports, bandwidth of each up to 1 Gbit/s

  + Fiber in and Ethernet out

  If the input device has 8 or 16 Ethernet ports, the first 8 Ethernet ports of the MFC8 are available.

  If the input device has 10 or 20 Ethernet ports, all the 10 Ethernet ports of the MFC8 are available. If Ethernet ports 9 and 10 are found unavailable, they will be available after upgrading in the future.

  + Ethernet in and fiber out

  All the 10 Ethernet ports of the MFC8 are available.
- 2 types of power connectors, including a 3-pin power socket and a PowerCON socket
- 1x type-B USB control port

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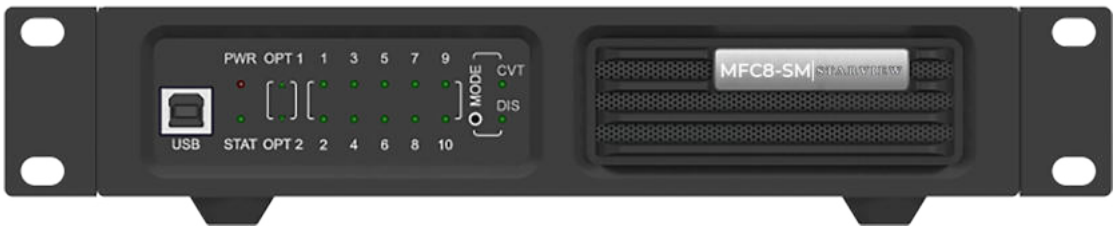
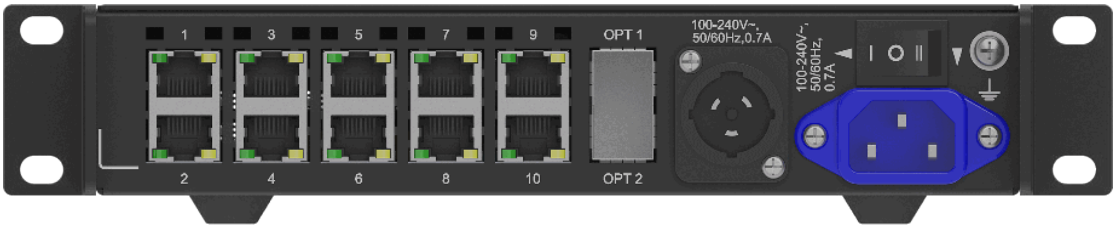
APPEARANCE

Front Panel



Name	Description
USB	Type-B USB control port Connect to the control computer for upgrading the MFC8 program, not for cascading.
PWR	Power indicator Always on: The power supply is normal.
STAT	Running indicator Flashing: The device is functioning normally.
OPT1/OPT2	Optical port indicators Always on: The optical fiber connection is normal.
1-10	Ethernet port indicators Always on: The Ethernet cable connection is normal.
MODE	The button to switch the device working mode The default mode is CVT mode. Only this mode is currently supported.
CVT/DIS	Working mode indicators Always on: The corresponding mode is selected. - CVT: The fiber converter mode. OPT1 is the master port and OPT2 is the backup port. - DIS: Reserved

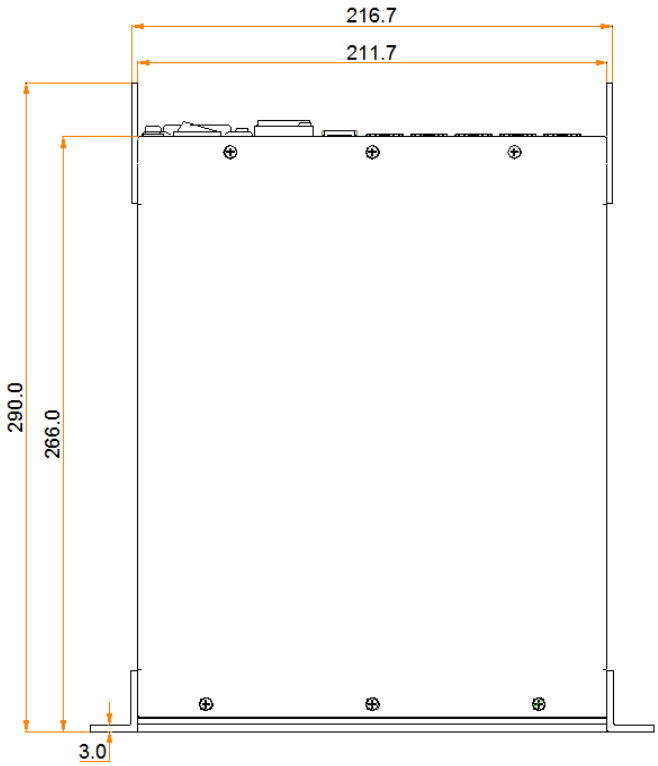
Rear Panel

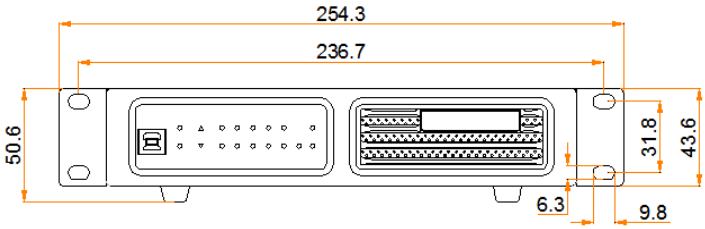


Name	Description
100-240V~, 50/60Hz, 0.6A	Power input connector - I: Enable the PowerCON socket. - O: Turn off the power. - II: Enable the 3-pin power socket. For the PowerCON connector, users are not allowed to plug in hot.

OPT1/OPT2	10G optical ports	
	MFC8-SM optical module description: - Hot swappable - Transmission rate: 9.95 Gbit/s to 11.3 Gbit/s - Wavelength: 1310 nm - Transmission distance: 10 km	MFC8-SM optical fiber selection: - Model: OS1/OS2 - Transmission mode: Single-mode twin-core - Cable diameter: 9/125 μm - Connector type: LC - Insertion loss: ≤ 0.3 dB - Return loss: ≥ 45 dB
	MFC8-MM optical module description: - Hot swappable - Transmission rate: 9.95 Gbit/s to 11.3 Gbit/s - Wavelength: 850 nm - Transmission distance: 300 m	MFC8-MM optical fiber selection: - Model: OM3/OM4 - Transmission mode: Multi-mode twin-core - Cable diameter: 50/125 μm - Connector type: LC - Insertion loss: ≤ 0.2 dB - Return loss: ≥ 45 dB
1-10	Gigabit Ethernet ports - Green indicator always on: The Ethernet cable connection is normal. - Yellow indicator flashing: There is data transmission.	

DIMENSIONS



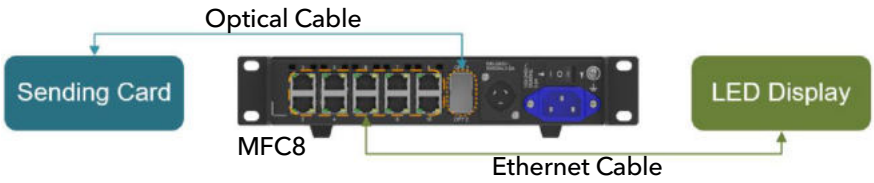


Tolerance: ±0.3 Unit: mm

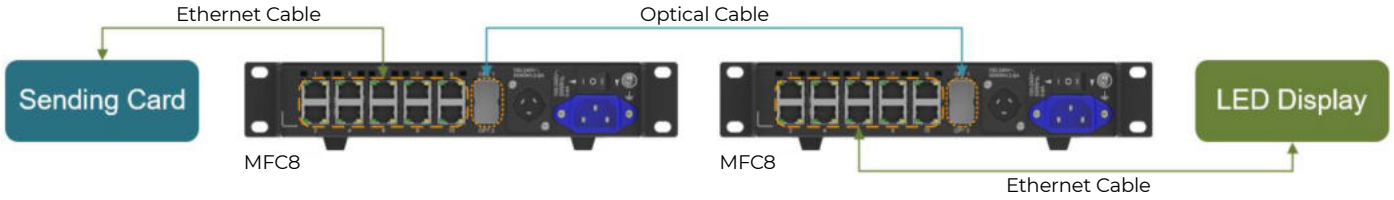
APPLICATIONS

The MFC8 is used for long-distance data transmission. Users can decide a connection method based on whether the sending card has optical ports.

The Sending Card Has Optical Ports



The Sending Card Has No Optical Ports

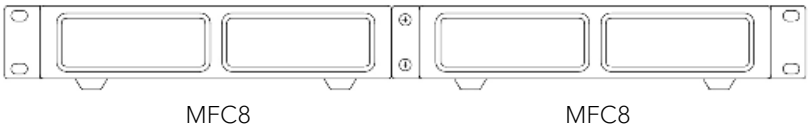


ASSEMBLING EFFECT DIAGRAM

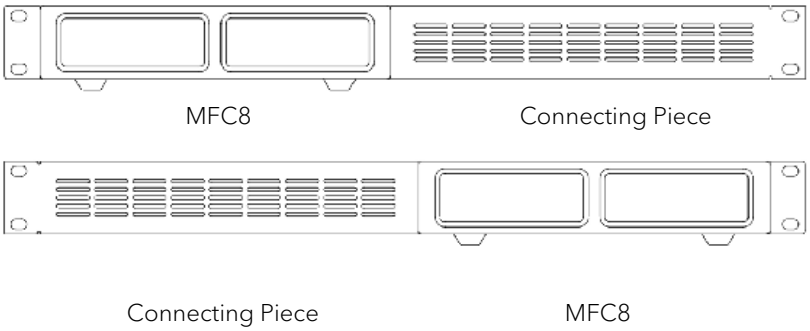
A single MFC8 device is half-1U in width. Two MFC8 devices, or one MFC8 device and a connecting piece can be combined into one assembly that is 1U in width. The assembly can be mounted in a standard 19-inch rack capable of withstanding at least four times the total weight of the mounted equipment. Four M5 screws should be used to fix the assembly.

Caution: The equipment must be installed in a restricted access location.

Assembly of Two MFC8



Assembly of a MFC8 and a Connecting Piece



Technical specifications		MFC8
Electrical Specifications	Power supply	AC 100-240 V, 50/60 Hz
	Rated power consumption	22 W
Operating Environment	Temperature	-20°C to +55°C
	Humidity	10% RH to 80% RH, non-condensing
Storage Environment	Temperature	–20°C to +70°C
	Humidity	10% RH to 95% RH, non-condensing
Physical Specifications	Dimensions	254.3 mm × 50.6 mm × 290.0 mm
	Net weight	2.1 kg Note: It is the weight of a single product only.
	Gross Weight	3.1 kg Note: It is the total weight of the product, accessories, printed materials and packing materials packed according to the packing specifications.
Packing Information	Packing Box	362.0 mm × 141.0 mm × 331.0 mm, kraft paper box
	Outer Box	387.0 mm × 173.0 mm × 359.0 mm, kraft paper box
	Packing List	1x MFC8 - 1x Power cord, 1x USB cable - 1x Supporting bracket A (with nuts), 1x Supporting bracket B (without nuts) - 1x Connecting piece - 12x M3x8 screws - 1x Assembling diagram - 1x Certificate of Approval
Certifications		RoHS, FCC, CE, IC, RCM Note: If the product does not have the relevant certifications required by the countries or regions where it is to be sold, please apply for the certifications yourself or contact Starview to apply for them.

The amount of power consumption may vary depending on factors such as product settings, usage, and environment.

For technical or sales support, please visit:
www.starviewint.asia

Performance specifications are typical. Due to constant research, specifications are subject to change without notice. For the most up-to-date specifications, please contact an authorized Starview representative.

For assistance with confirming the Jurisdiction & Classification of Starview Asia products, please contact info@starviewint.asia

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