

CMX-FMCH001

4K/2K HDMI 2.0 Over Fiber Extender 18Gbps HDCP 2.2 with RS-232 Support





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Safety Precautions:

Please read all instructions before installing or operating this equipment and connecting the power supply.

Please keep the following in mind as you unpack and install the unit:

- 1. To prevent fire or shock hazards, do not expose this equipment to high humidity and/or dust. Do not use in an unprotected outdoor installation nor any area classified as overly damp or wet.
- 2. The temperature for installation should be kept between -4°F and 140°F (-20°C and 60°C). Avoid direct sunlight exposure or extreme temperature changes over a short period of time.
- 3. Do not disassemble or place the unit on an unstable base.
- 4. Do not drop the unit and avoid heavy impacts.
- 5. This unit should not be permanently installed unless proper ventilation is provided. Any enclosure openings must not be blocked or covered as they protect the unit from overheating.
- 6. Before cleaning, turn off the power and unplug the unit from all connections. Use a damp cloth. Do not use liquid cleaners or aerosol cleaners.
- 7. Do not overload outlets and extension cords, as this may result in a risk of fire or electric shock.
- 8. Never push objects of any kind, including liquids, into this unit through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock.
- 9. Do not attempt to open or service this unit yourself; opening or removing covers may expose you to dangerous voltage and other hazards.
- 10. The unit does not contain user-serviceable parts. Contact your authorized dealer or an authorized repair service company if it requires service.

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Introduction:

The Camplex CMX-FMCH001 18 Gigabit Fiber extender sends a standard copper-based HDMI signal up to 4K@60Hz via an SFP transceiver module (not included) with a maximum distance of 37 miles over Single Mode fiber and 984 feet over multimode (4K2K requires 10G Duplex SFP transceiver module). The system features automatic EDID for rapid integration of source and display, RS232 bi-directional pass through, and low latency. Housed in a vented, black powder-coated steel cabinet.

DISCLAIMER: Duplex SFPs are **NOT** Included. No IR support.

In the Box:

- Transmitter
- Receiver
- x2 DC12V/1A Power Supply
- x2 Phoenix Plugs
- Operating Instructions

Features:

- Automatic EDID for Rapid Integration of Source and Display
- Low Latency
- Supports HDCP 2.2, HDCP 1.4
- RS232 Bi-Direction Pass Through
- Locking Power Supplies
- Black Powder-Coated Cabinet
- Includes Two Phoenix Plugs for RS-232 Cable Termination
- Certifications: FCC, CE
- Compatible with MSA SFP+ SFP's Duplex SFPs required







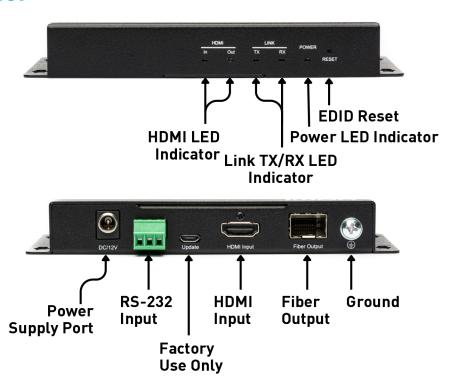
Specifications:

Compliance	HDCP 1.4, HDCP 2.2
Certification	FCC, CE
Video Bandwidth	Up to 18Gbps
Video Formats	4K2K@60Hz(YUV4:4:4), 4K@60Hz, 1080P, 720P, 576P, 480P/ VESA Resolution
Audio Formats	LPCM 7.1 Dolby TrueHD DTS-HD Master Audio
Transmission Distance	SFP module Dependent up to: Single Mode 37 miles (60km) Multimode 984 feet (300m)
Power Consumption	3W Each Unit
Unit Dimensions (LxWxH)	5-7/8 x 3-1/4 x 7/8 inches Each Unit
Weight (Both Units)	1 lb

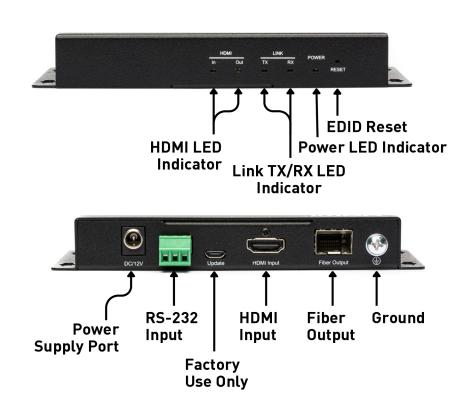
Note: Requires 10G Duplex Transceiver SFP Modules

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Panel Description: Transmitter

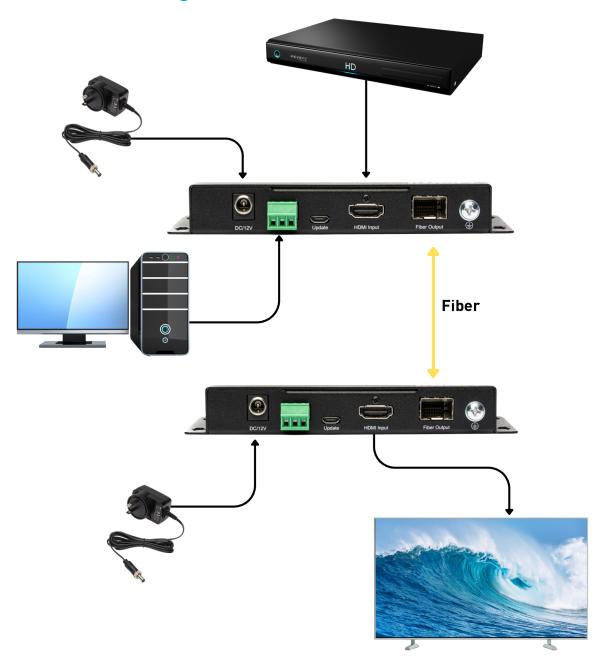


Receiver



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Connection Diagram





Installation and Connection Connection Instructions

- 1. Connect the HDMI input source to the HDMI input on the Transmitter.
- 2. Connect the fiber cable to the SFPs on both units (SFPs are **NOT** included).
- 3. Connect the HDMI display to the HDMI Output on the Receiver.
- 4. Connect RS232 as needed with Phoenix plugs.
- 5. Connect the 12VDC power supplies to the Transmitter and the Receiver (included).

LED Indicators

LED	Status	Operation Status
Power	Green	Units are receiving power and are on
HDMI In	Green	The source is connected and has a stable connection
	Off	The source is disconnected or not detected
LIDAN Out	Green	The display is connected and has a stable connection
HDMI Out	Off	The display is disconnected or not detected
LINK TX	Green	TX SFP module is properly plugged into the unit and has a stable connection
	Red	TX SFP module is plugged into the unit and has an unstable connection
	Off	TX SFP module is not plugged in
LINK RX	Green	RX SFP module is properly plugged into the unit and has a stable connection
	Red	RX SFP module is plugged into the unit and has an unstable connection
	Off	RX SFP module is not plugged in

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EDID Reset to Defualt Status

- 1. Default EDID: 1080P, Audio 2 Channel PCM
- 2. Press the EDID Reset button for 5 seconds using the end of a paper clip.
- 3. The Power LED indicator will go out and turn on again.
- 4. Connect the extender to the 4K display.

RS232 Pass Through Function

- 1. Default baud rate: 115200
- 2. Open the serial port interface on the computer or other RS232 device to set the baud rate manually.
- 3. Supported baud rates:
 - a. 115200
 - b.57600
 - c.38400
 - d. 19200
 - e. 14400
 - f. 9600
 - g.4800
 - h. 2400

Support & Warranty:

Camplex warrants cable assemblies to be free from manufacturer defects and built to a \pm -2% tolerance of the overall length. Prior to shipment, Camplex tests and certifies all cable assemblies for insertion loss, return loss, and interferometric data on all fibers in both directions. Camplex cables have a limited lifetime warranty to be free from manufacturer defects.

All other Camplex products are warrantied for one (1) year from date of purchase, with parts and labor included.

This warranty is limited to defects in workmanship or materials and does not cover customer damage, abuse, or unauthorized modification. If this product fails or does not perform as warranted, your recourse shall be repair or replacement. Under no condition shall Camplex be liable for any damage incurred through use of this product. This damage includes but is not limited to lost profits, lost savings, or incidental or consequential damage arising from the use of or inability to use this product.

Camplex specifically disclaims all other warranties, expressed or implied, and the installation or use of this product shall be deemed to be an acceptance of these terms by the user. Camplex reserves the right to repair or replace items identified as within warranty.

To determine warranty product failures, all warranty repairs must be returned freight prepaid and insured.