

CMX-12GSFP-TR

Mini 1-Channel Unidirectional 12G-SDI over Single Mode Fiber Extender Set





Table of Contents

Safety Precautions	Page 3
Introduction	Page 4
In the Box	Page 4
Features	Page 4
Specifications	Page 5
Panel Description	Page 6
Connection Diagram	Page 7
Installation and Connection	Page 7
LED Indicators	Page 8
Support & Warranty	Page 8



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.

CAMPLEX®

Introduction:

The Camplex 12GSFP-TR is a compact 1-Channel unidirectional 12G-SDI over fiber extender set that delivers up to 4K@60Hz over a simplex LC Single Mode fiber. This set delivers reliable point-to-point extension of fully SMPTE-compliant 12G-SDI signals over 6.2 miles. The plug-and-play design makes it ideal for remote OB vans/trucks, broadcast studio camera feeds, broadcast live transmission, video wall controllers, and command centers where space is limited.

In the Box:

- CMX-12GSFP-TR Transmitter
- CMX-12GSFP-TR Receiver
- 2x 5V Mini 3-Pin XLR Power Supplies

Features:

- Sends 12G-SDI Signal Over Simplex LC Single Mode Fiber up to 10km/6.2 Miles
- Supports Resolutions up to 4069x2160@60p
- Supports SMPTE-424M (3G-SDI), SMPTE-292M (HD-SDI), and SMTPE-259M (SD-SDI)
- Compact and Easy to Install
- Data Rate from 270Mbps up to 11.88Gb/s
- SMPTE ST 2082-1 (11.88Gb/s) Clock Recovery
- 5V Power Supply with Mini XLR Connector
- Supports Automatic Cable Equalization Based on the Data Rate Detected
- LED status indicators



CAMPLEX®

Specifications:

• **Dimensions:** 3.85" x 1" x 1"

SDI Input:

• Connector: 75Ω BNC

Resolutions: 12G-SDI (4k@60), 6G-SDI (4096x2160@30p), 3G-SDI (1080@60p), HD-SDI (1080i/720p), SD

Reflection Loss: >4dB @ 12GEqualization: >50M @ 12Gb/s

SDI Output:

• Connector: 75Ω BNC

• Signal Level: 800mV nominal

• Rise/Fall Time: <45ps @12G UHD-SDI, <80ps @6G UHD-SDI,

<135ps @3G-SDI

• Overshoot: <10% amplitude

• Reflection Loss: > 15dB

• **Jitter:** < 0.5UI

Fiber:

Channel Count: 1 Channel
Fiber Type: Single Mode
Connector: LC/UPC or SFP

• Wavelength: 1310nm or 1550nm

• **Distance:** 6.2mi (10km)

Power:

Power Supply: 5V Mini 3-Pin XLR
Power Consumption: About 4W

• Operating Temperature: -40°F - 113°F (-40°C to +45°C)

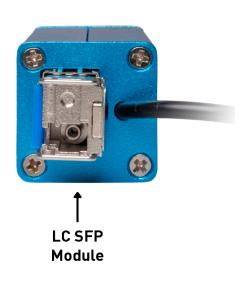
• EMI/RFI: FCC Part 15 Class A, EU EMC standard

CAMPLE

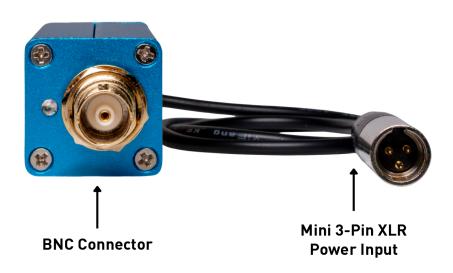
Panel Description: Transmitter

ansmitter

Front

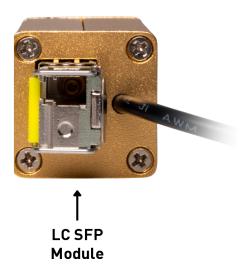


Back

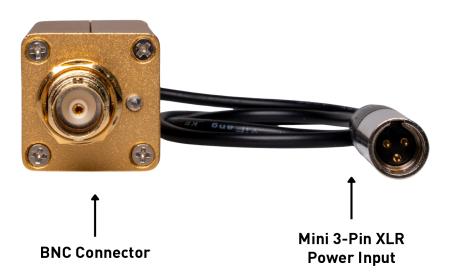


Receiver

Front

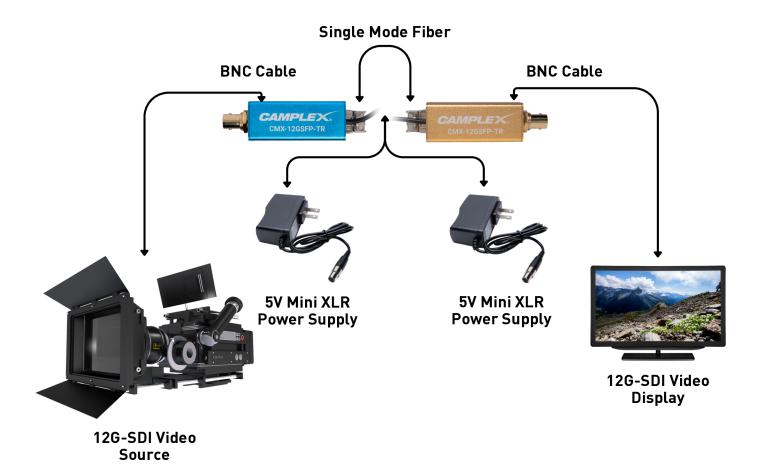


Back



CAMPLEX®

Connection Diagram



Installation and Connection Connection Instructions

- 1. Connect the BNC cable from the 12G Source to the BNC connector on the Transmitter.
- 2. Connect one end of the Single Mode Fiber to the transmitter and the other end to the Receiver.
- 3. Connect the BNC cable from the 12G Display to the BNC connector on the Receiver.
- 4. Plug the power supplies to both the Transmitter and Receiver.

CAMPLEX

LED Indicators

LED	Status	LED Color
Transmitter	Power On	Red
	With Signal	Green
	No SDI Receiver	Red
	No Fiber Receiver	Green
Receiver	Power On	Red
	With Signal	Green
	No SDI Receiver	Red
	No Fiber Receiver	Red

Support & Warranty:

Camplex warrants cable assemblies to be free from manufacturer defects and built to a +/-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.