![CAMPLEX®]

CMX-12GSDI-MINI

Camplex MINI 12G-SDI over ST fiber extender

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.

CMX-12GSDI-MINI

Introduction:

The Camplex CMX-12GSDI-MINI is a compact 12G-SDI fiber extender that can transmit 12G-SDI signals up to 20km (12 mi) over one Single Mode ST fiber. Its unique design allows connection directly to equipment without the need for additional SDI cables. This single-link ST-2082-1 compliant system is directly compatible with DVB-ASI, AES10 (MADI), and 12G/6G/3G-SDI camera systems.

In the Box:

- Transmitter
- Receiver
- x2 DC +5V, 5.5mm DC Jack
- x1 Carrying Case

Features:

- Supports 12G (ST-2082-1), 6G (ST-2081-1), 3G (ST-424), HD (ST-292) and SD (ST-259)
- Supports up to 4K60Hz, 1080p, 1080i, 720p
- Single Mode fiber transmission
- Max Transmission distance up to 20km
- 1310nm DFB laser
- Compatible with DVB-ASI and AES10 (MADI)
- Integrated Reclocker locks to SMPTE Rates of 11.88Gbps, 5.94Gbps, 2.97Gbps, 1.485Gbps or Divide-by- 1.001 sub rates and 270 Mbps
- ST Fiber Connector
- BNC Connector
- +5V locking 5.5m DC jack
- SMPTE Compatible Serial Digital Interface

Specifications:

- Dimensions (Inches): 0.76 x 0.76 x 1.96
- Fiber Optical Connector: ST
- Fiber Type: Single Mode Fiber
- Transmission Distance: 10km
- Supported SDI Signal: 12G-SDI, 6G-SDI, 3G-SDI, HD-SDI, SD-SDI
- Data Rate: Up to 11.88 Gb/s
- Operation Temperature: -40°F to 185°F (-40°C to 85°C)
- Power Supply: DC +5V, 5.5mm DC Jack
- ICC:
  - Tx: Max 200mA
  - Rx: Max 200mA
- Laser Type: 1310nm DFB Laser
- Photo Detector: PIN-PD
- Transmitter:
  - TX Po: -3   +3dBm
  - TX Er: >5.0dB
- Receiver:
  - Rx Sen.: < -14.5dBm

LED Indicator:

The transmitter and receiver **each** contain three (3) LED indicators which indicate the following:

LED Symbol	Color	TX indicator	RX Indicator
Link	Green	For fiber connection, LED on: Laser working	For fiber connection, LED on: Receiving the optical signal
SIG	Green	For SDI Signal, LED on: The Tx unit receives the SDI source signal.	For SDI Signal, LED on: SDI signal output is normal.
PWR	Red	Power Supply Indicator, LED on: The power supply is working and connected.	Power Supply Indicator, LED on: The power supply is working and connected.

Application Diagram:

Single Mode Fiber
Up to 20km
Transmitter
Receiver
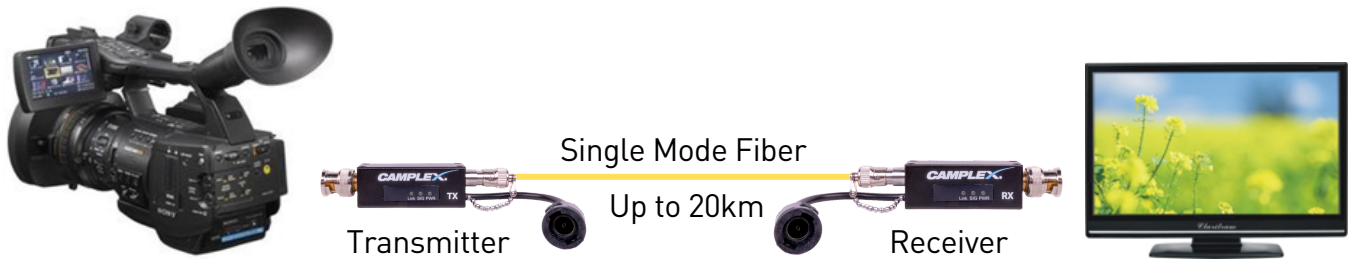
Installation Instructions:

This product consists of a transmitter and receiver. These units are interconnected via a single-channel ST optical cable utilizing Single-Mode Fiber.

1. First, remove the locking metal dust covers from the ST fiber optic connectors on the Transmitter (Tx) and receiver (Rx). To do this, push in and turn 45° counterclockwise, then pull off the cover off.
2. Connect the BNC SDI connector on the transmitter unit to the SDI output port of the signal source.
3. Each unit has one (1) optical port. Connect an ST-terminated fiber optic cable between the transmitter and receiver units.
4. Connect the BNC SDI connector on the receiving unit to the SDI input port of the destination device.
5. Connect the external power adapters to the power input jack on both the Tx and Rx units.
6. Apply power to the destination device and then power to the source device. Within a few seconds, the signal should be available for the display or other destination devices.

NOTE: Always put the dust covers on the ST fiber connectors when not in use.

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.

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