Extend a SD/HD/3G-SDI display up to 12.4 miles (20 kilometers)

- Signal transmission via one singlemode or multimode LC fiber optic cable.
  - Using singlemode 9-micron cable, extend to 12.4 miles (20 kilometers).
  - Using multimode 50-micron cable, extend to 1,640 feet (500 meters).
- Supports HDTV resolutions to 1080p @60Hz.
- Simultaneously transmits to two SD/HD/3G-SDI displays at the receiver.
- Supports a local display via loop out SDI connector.
- Supports unidirectional RS485 from the receiver to the transmitter.
- Plug-and-play functionality – no software needed.
- Low RFI/EMI for sensitive applications.
- Cables can be installed in conduit prior to extender installation.
- Integrated mounting brackets for easy surface/wall mounting.
- Available power options: 5VDC or 12VDC

The XTENDEX® SD/HD/3G-SDI Extender via Fiber Optic Cable locates up to two displays from a SD/HD/3G-SDI video source up to 12.4 miles (20 kilometers) away using a single singlemode LC fiber optic strand and 1,640 feet (500 meters) using multimode fiber optic cable. Each extender consists of a transmitter that connects to a SD/HD/3G-SDI video source and a local loop out, and a receiver that connects to up to two SD/HD/3G-SDI displays.
Extend a SD/HD/3G-SDI display up to 12.4 miles (20 kilometers)

### Specifications

#### Local Unit
- One female 75 ohm BNC connector for SD/HD/3G-SDI video input.
- One female 75 ohm BNC connector for local SD/HD/3G-SDI loop out video output.
- One female LC fiber connector.
- One 2-pin terminal block for RS485.

#### Remote Unit
- Two female 75 ohm BNC connector for SD/HD/3G-SDI video output.
- One female LC fiber connector.
- One 2-pin terminal block for RS485.

#### Video
- Supports HDTV resolutions to 1080p @60Hz.
- Protocols supported: SMPTE 292M, SMPTE 424M, SMPTE 425M
- Supports NTSC and PAL video.

#### RS485
- Supports unidirectional RS485 from the receiver to the transmitter.
- Baud rate: 1200, 9600, 115200

#### Power
- ST-1FO3GSDI-LC Local and remote unit:
  - Input: 100 to 240 VAC at 50 or 60Hz via AC adapter (included).
  - Output: 5VDC, 3A
  - Power consumption: 2.5W
- ST-1FO3GSDI-LC12V Local and remote unit:
  - Input: 100 to 240 VAC at 50 or 60Hz via AC adapter (included).
  - Output: 12VDC, 1A
  - Power consumption:
    - Local unit: 2.52W
    - Remote unit: 2.16W

#### Dimensions
- Local and remote unit WxDxH: 4.81x4.11x1.13 in (122x104x29 mm)

### Environmental
- Operating temperature: -4 to 131°F (-20 to 55°C).
- Operating and storage relative humidity: 0 to 95% non-condensing RH.

### Regulatory Approvals
- CE, FCC, RoHS

### Warranty
- Two years

### Max Distance
- 12.4 miles (20 km) over singlemode 9/125-micron LC simplex fiber optic cable.
- 1,640 feet (500 meters) over multimode 50/125-micron (OM2/OM3/OM4) LC simplex fiber optic cable.

### Cables
- Interface cables (RG6) between the video source/display and the transmitter/receiver are required for proper operation.
  - Maximum RG6 cable distance:
    - 3G-SDI: up to 328 ft (100 m)
    - HD-SDI: up to 656 ft (200 m)
    - SD-SDI: up to 984 ft (300 m)
- Use a simplex LC singlemode 9/125-micron fiber optic cable to extend the receiver from the transmitter up to 12.4 miles (20 kilometers).
- Use a simplex LC multimode 50/125-micron (OM2/OM3/OM4) fiber optic cable to extend the receiver from the transmitter up to 1640 feet (500 meters).
- Cables not included.

### Compatible NTI Products
- Combine NTI’s converter for complex applications.
  - 3G-SDI to HDMI with Audio Converter Scalor (3GSDI-HDA)

### 3GSDI Extender via One LC Singlemode or Multimode Fiber Optic Cable

<table>
<thead>
<tr>
<th>NTI Part #</th>
<th>Power Output</th>
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</thead>
<tbody>
<tr>
<td>ST-1FO3GSDI-LC</td>
<td>5VDC, 3A</td>
</tr>
<tr>
<td>ST-1FO3GSDI-LC12V</td>
<td>12VDC, 1A</td>
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</tbody>
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