



"Bridging today's video with tomorrow's fiber optics."

Mini-3GHD

Miniature Fiber Optic 3Gb/s SDI
Digital Video Transport Systems

3Gb/s SDI
→
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"SMPTE-424M 3Gb/s SDI"

"SMPTE-292M HD"

"SMPTE-259M SDI"

"DVB-ASI"



"High performance and affordable solutions for your broadcast HD-SDI video transmission."

Applications

Remote 3Gb/s SDI Video Transport

ENG/EFP 3Gb/s SDI Video
Transmission

Pre-production and Post-production
3Gb/s SDI Video Links

Features

Transport Multi-rate HD-SDI Digital
Video Over Fiber

Reliable Transmission Over Multimode
or Singlemode Fiber

Video Pathological Test Code Compliant

Latch-Locking Power Connector

Same Model Compatible for either
Multimode or Singlemode Fiber

12-Slot Card Chassis Option

The Mini-3GHD Series is a miniature, Fiber Optic 3Gb/s SDI Digital Video Transport System, supporting the new 1080p 3Gbps SDI format. The standard Mini-3GHD system is designed to transport one (1) channel SMPTE-424M 3Gb/s SDI, SMPTE-292M HD-SDI or SMPTE-259M SDI serial digital video signal over long distance through either singlemode or multimode fiber with the same model.

Due to the use of advanced digital fiber optic transmission technology, no user adjustments are required in the Mini-3GHD system, enabling quick setup and trouble-free operation. The Mini-3GHD can handle SDI, DVB-ASI, HD-SDI, 3G-SDI, and many other video formats. The power connector has a latch-locking mechanism, thus no power disruption due to mis-handling problem.

The Mini-3GHD comes with a rugged, standalone, miniature unit. Panel connectors are provided for digital video (BNC connector) and fiber connection (ST-type for the singlemode and multimode version). Rackmount card chassis option is also available.



Mini-3GHD



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Digital Video

| | |
|---------------|---|
| Signal Format | SMPTE-424M 3Gb/s SDI SMPTE-292M HD-SDI or SMPTE-259M SDI Digital Video and many others |
| Data Rate | 3 Gbps |
| Signal Level | 800mVp-p +/- 10% |
| Return Loss | > 15 dB |
| Connector | 75 Ohm BNC |

Physical

| | |
|------------------------|-----------------------------|
| Dimension: (H x W x D) | 0.75" x 0.65" x 2.0" |
| Power Level | +5 VDC @ 0.5 A |
| Operating Temperature | 0 to +50°C |
| Humidity | 0 to 95% RH, non-condensing |

Optical

| | |
|-----------------------|-------------------------------|
| Fiber Type | Multimode and Singlemode |
| Number of Fibers | 1 |
| Fiber Optic Connector | ST (Multimode and Singlemode) |

Optical

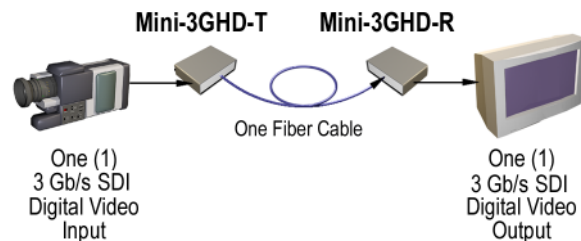
Typical Power Budget and Transmission Distance

| Application | Power Budget (1) | Typical Distance KM (2) | Typical Distance Miles (2) |
|------------------|------------------|-------------------------|----------------------------|
| Multimode Fiber | 16 | 0.3 | 0.2 |
| Singlemode Fiber | 16 | 30 | 22 |

(1) These are typical values for the Mini-3GHD Series. The actual values may vary.

(2) These are typical distance coverage figures. The maximum distance coverage may be greater than these typical numbers, depending on fiber type, fiber bandwidth, connector splicing losses, chromatic dispersion, environmental factors, etc.

Application



Ordering Information

| | | |
|-------------------|---|------------------------|
| Mini-3GHD-T-MS-ST | Transmitter, Multimode or Singlemode, 1-Fiber | (1-Fiber) 3Gb/s SDI |
| Mini-3GHD-R-MS-ST | Receiver, Multimode or Singlemode, 1-Fiber | |

DOING MORE WITH ONE FIBER

Subject to continued product enhancement, we reserve the right to change the above specifications and description without notice.

