3G HD-SDI 101

ONE INPUT, ONE OUTPUT CABLE EQUALIZER FOR MULTI-RATE SDI



The 3G HD-SDI 101 is a cable equalizer for multi-rate SDI signals, which enables SDI, HD-SDI, or 3G-SDI digital video to be sent long distances on coaxial cable. This broadcast quality equalizer accepts all common serial digital video data rates including SMPTE 259M, SMPTE 292M, and SMPTE 424M, as well as embedded audio, ancillary ID, and metadata information. The 3G HD-SDI 101 is ideal for applications that require high resolution signal equalization due to long cable runs in a variety of applications.

- Automatically adapts to SMPTE and ITU digital video standards for SDI and HD-SDI
- Supports data rates up to 3G-SDI video
- Automatic input equalization
- Automatic output reclocking
- Passes embedded audio, ancillary ID, and metadata information
- **■** LED power indicator
- One-eighth rack width metal enclosure
- External universal power supply included



DESCRIPTION

The **3G HD-SDI 101** is a one-input, one-output cable equalizer for multi-rate SDI digital video signals. It offers a convenient, economical solution for sending multi-rate SDI digital video signals over long coaxial cable runs. The 3G HD-SDI 101 supports all common serial digital video data rates up to 2.97 Gbps, and also passes embedded audio and other ancillary data allowed by the SMPTE and ITU specifications. It is housed in a one-eighth rack width, metal enclosure, providing integration-friendly mounting options into both new and existing A/V systems, including broadcast and production facilities, command and control centers, and medical imaging facilities.

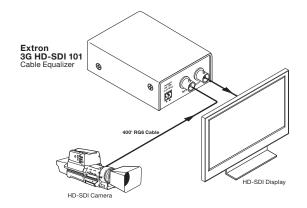
The 3G HD-SDI 101 features automatic input equalization, which compensates for attenuation and distortion on the incoming signal. Cables can vary in length up to the maximum of 500 feet (150 m) without requiring a change to the equalizer.

The 3G HD-SDI 101 also features output reclocking, which reshapes and restores timing of digital video signals at the output, eliminating high frequency jitter and providing A/V system designers with additional headroom when connecting multiple devices.

FEATURES

- Automatically adapts to SMPTE and ITU digital video standards
- Supports data rates up to 3G-SDI video
- Automatic Input equalization
- Automatic output reclocking
- Passes embedded audio, ancillary ID, and metadata information
- **■** LED power indicator
- One-eighth rack width metal enclosure is compact enough to be placed behind a display
- External universal power supply included

APPLICATION DIAGRAM



SPECIFICATIONS

| VIDEO |
|--|
| Gain Unity |
| Resolution |
| Operation standards SMPTE 259M, SMPTE 292M, SMPTE 424M, |
| ITU-R BT.601, ITU-R BT.1120 |
| Auto data rate lock Yes |
| VIDEO INPUT |
| Number/signal type 1 single link SDI, HD-SDI, or 3G-SDI digital |
| component video |
| Connectors |
| Data rates 19 Mbps to 2.97 Gbps |
| Input cable equalization Automatic for up to -30 dB of cable loss |
| HD-SDI, 3G-SDI120 m (400') using Extron RG6 cable |
| 60 m (200') using Extron RG59 cable |
| SDI |
| 120 m (400') using Extron RG59 cable |
| NOTE: Transmission distance varies depending on the signal resolution and on |
| the type of cable, source, and display used in the system. |
| Nominal level |
| Minimum/maximum levels 0.5 V to 1 Vp-p with no offset |
| Impedance |
| Return loss <-15 dB @ 5 MHz to 2.97 GHz |
| DC offset (max. allowable) 5 V |
| Input coupling AC |
| |
| VIDEO OLITPLIT |

| ADEO OUTPUT | | | | | | |
|--------------------|---|------------------|---------|----|----------|---------|
| lumber/signal type | 1 | single link SDI, | HD-SDI, | or | 3G-SDI d | ligital |

GENERAL

Ν

12 VDC, 2 A, regulated Power input requirements..... 12 VDC, 0.2 A Cooling...... Convection, no vents Mounting Yes, with optional 1U, 9.5" deep rack shelf, Rack mount part #60-190-01 (RSU 129) or 60-604-01 (RSB 129); or with VersaTools® 1U, 3.5" deep rack shelf, part #60-190-20 (RSF 123) or 60-604-20 (RSB 123); or with Back of the Rack mounting kit, part #70-367-01 (MBB 100) Furniture mount. Yes, with optional VersaTools Under Desk

ModelVersion DescriptionPart Number3G HD-SDI 101Multi-rate Cable Equilizer60-963-01

Specifications are subject to change without notice.



Extron **USA - West** Headquarters

+800.633.9876 Inside USA / Canada Only

+1.714.491.1500 +1.714.491.1517 FAX Extron **USA - East**

+800.633.9876

+1.919.863.1794 +1.919.863.1797 FAX Extron Europe

+800.3987.6673 Inside Europe Only

+31.33.453.4040 +31.33.453.4050 FAX Extron **Asia** +800.7339.8766 Inside Asia Only

+65.6383.4400 +65.6383.4664 FAX Extron Japan +81.3.3511.7655 +81.3.3511.7656 FAX Extron **China** +400.883.1568

+86.21.3760.1568 +86.21.3760.1566 FAX +971.4.2991800 +971.4.2991880 FAX