**1T-FC-766**

HDMI to 3G-SDI Extender Converter

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**Overview**

1T-FC-766 HDMI to 3G SDI Converter allows HDMI signals to be displayed on an SDI monitor. High bitrate processing ensures fast signal transmission without signal loss and also allows for the use of high resolution SDI monitors. The 1T-FC-766 HDMI to 3G SDI Converter allows outputs to two SDI displays simultaneously.

The 1T-FC-766 supports 480i, 576i, 720p50/60, 1080p24/25/30, 1080i50/60, 1080p50/60 HDMI signals and operates at full range processing speeds of 2.970Gbit/s, 2.97/1.001Gbit/s, 1.485Gbit/s, 1.485/1.001Gbit/s and 270Mbits/s.

Integrated audio embedding of up to 8 channels PCM 48kHz for HDMI or 2 channels for external analog audio. Also provided are auto video mode detection (SD/HD/3G), compliance with HDCP copy protection guidelines and support of signal transmission distances of up to 300M for SD signals, 200M for HD signals and 100M for 3G signals. Lastly, a locking +5VDC connector protects from undesired disconnects of the external power supply.

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**Key Features**

- Supports HDMI timing of 480i, 576i, 720p50/60, 1080p 24/25/30, 1080i 50/60,1080p 50/60
- Operation at 2.970Gbit/s, 2.97/1.001Gbit/s, 1.485Gbit/s, 1.485/1.001Gbit/s and 270Mbits/s
- Simultaneous display of an HDMI source on two SDI displays
- Integrated audio embedding for up to 8 channels PCM 48kHz for HDMI or 2 channels for analog stereo
- Auto video mode detection (SD/HD/3G)
- Compliant with HDCP copy protection guidelines
- Supports signal transmission distances of up to 300M for SD, 200M for HD and 100M for 3G
- Locking +5VDC Connectors

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**Specifications**

| **Video Input** | 1x via HDMI Connector |
| **Video Outputs** | 2x via BNC (SD, HD & 3G SDI) |
| **Audio Inputs** | 2x RCA Connectors |
| **Video Processing** | 2x BNC (SD, HD & 3G SDI) |
| **Audio Processing** | Up to 8 Channels, 48Khz |
| **Video Formats** | 2 Channels, Stereo, R&L |
| **SDI Formats** | 480i, 576i, 720p, 1080i, 1080p24, 3G SDI 1080p 50/60 |
| **SDI Cable Distance** | SD-SDI=300m, HD-SDI=200m, 3G SDI=100m (Belden 1694A) |

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**Environmental**

- Operating Temperature: 0° to +40° C (+32° to +104° F)
- Operating Humidity: 20% to 90%, Non-Condensing
- Storage Temperature: -20° to +60° C (-4° to +140° F)
- Storage Humidity: 20% to 90%, Non-Condensing

**Regulatory Approvals**

- Main Unit: FCC, CE, RoHS
- Power Supply: UL, CUL, CE, PSE, GS, RoHS

**Mechanical**

- Size (H-W-D): 30 x 200 x 103.5mm (1.18 x 7.87 x 4.07")
- Weight (Net): 585g (1.29 lbs)

**Power Requirement**

- 5VDC@2.6A, Locking DC

**Accessories Included**

- 1x Power Adapter
- 1x User Manual

**Model Number**

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Panel Drawings