

1T-FC-677

3G-SDI Extender/HDMI Converter

Key Features

- 3G, SD and HD-SDI to HDMI Signal Conversion
- Simultaneous Display of 3G SDI & HDMI
- Operation at 2.970Gb/s, 2.970/1.001Gb/s, 1.485Gb/s, 1.485/1.001Gb/s and 270Mb/s
- Supports SMPTE 425M(A&B), 424M, 292M, 259MC
- Equalized and Re-Clocked Looped Output
- Integrated 8-Channel 48Khz Audio De-Embedder
- LPCM 2.0 or LPCM 7.1 over the HDMI output
- Automatic Video Detection of 3GI, SD & HD-SDI
- Conversion of SMPTE 425M B to A for 1080p
- Cascade multiple units for maximum flexibility
- Allowable SDI Transmission Distances of
- 300m for SD, 200m for HD, 100m for 3G
- Locking DC Connector



Overview

1T-FC-677 3G-SDI Extender with HDMI Converter allows SD-SDI, HD-SDI and 3G-SDI signals to be displayed on either an SDI and an HDMI monitor simultaneously. The high bitrate processing of 2.970 Gbit/s ensures fast signal transmission without signal loss and also allows great flexibility in monitor selection since extremely high quality displays can be accomplished on either a high resolution SDI monitor or high resolution HDMI display. Even greater utility is provided by the unit's SDI Extender capability. Two Equalized and Re-clocked SDI outputs are provided.

Automatic input signal type detection is provided and up to 8 channels of audio de-embedding is possible. SDI Audio channels are automatically detected and are output over HDMI as either LPCM 2.0 or LPCM 7.1. If there are less than 8 active channels of audio, the 1T-FC-677 will automatically select the first 2 channels and output them over the analog stereo and HDMI outputs as LPCM 2.0. If there are 8 active channels, the first 2 channels will be output over the analog stereo outputs and the HDMI output will contain a full LPCM 7.1 audio signal. The unit employs the unique tvONE locking DC power connector to enhance overall system mechanical security.

Specifications

Video Input

3G, HD, SD-SDI 1x via BNC Connector

Video Outputs

3G, HD, SD-SDI 2x via BNC (Equalized, Re-clocked)

HDMI v1.3 1x via HDMI Connector

De-Embedded Audio

Analog Stereo R+L 2x RCA Connectors

Video Signal Proc.

Input Signal Auto Detection of Signal Type

Output signal EQ. & Re-Clocked SDI Output

SDI throughput Rates 2.970 Gb/s & 2.970/1.001 Gb/s

Audio Processing

De-Embedding Up to 8 channels, 48Khz

SMPTE Standards

SMPTE I/O Supported 425M(A&B), 424M, 292M, 259MC

Video Formats

SD and HD Formats 480i, 576i, 720p, 1080i, 1080p

SDI Cable Distance

Max SDI Distance SDI=300m, HD=200m, 3G=100m

Environmental

Operating Temperature 0° to +40° C (+32° to +104° F)

Operating Humidity 20% to 90%, Non-condensing

Storage Temperature -10° to +60° C (+14° to +140° F)

Storage Humidity 20% to 90%, Non-condensing

Warranty

Limited Warranty 3 Years Parts and Labor

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

External Power Supply 5VDC@2.6A, Locking DC

Accessories Included

1x Power Adapter US, UK or Euro

1x User Manual

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Panel Drawings

