### 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	ix via bive connector
3G, HD, SD-SDI clocked)	2x via BNC (Equalized, Re-
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	1 Year 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	
Model Number	
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## 3G-SDI Extender/HDMI Converter

## **Panel Drawings**





