

# 1T-FC-766

## HDMI to 3G-SDI Extender Converter

### 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, 2.970/1.001Gbit/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



### 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, 2.970/1.001Gbit/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), compliancy 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.

### Specifications

#### Video Input

HDMI 1x via HDMI Connector

#### Video Outputs

3G-SDI 2x via BNC (SD, HD & 3G SDI)

#### Audio Inputs

Stereo R+L 2x RCA Connectors

#### Video Processing

Input Signal Automatic Detection of Type  
Output signal Equalized SDI Output  
SDI throughput Rates 2.970Gb/s and 2.970/1.001Gb/s  
Frequency Bandwidth 225 MHz/Link (HDMI 1.3)

#### Audio Processing

Integrated Audio Up to 8-Channels, 48Khz  
Embeddable Audio 2 Channels, Stereo, R&L

#### Video Formats

SD, HD and 3G Formats 480i, 576i, 720p, 1080i, 1080p24, 3G SDI 1080p 50/60

#### SDI Cable Distance

Max Distances SD-SDI=300m, HD-SDI=200m, 3G SDI=100m (Belden 1694A)

#### 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

#### 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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## HDMI to 3G-SDI Extender Converter

### Panel Drawings

