

1T-DA-726

3G/HD/SD-SDI Distribution Amplifier



Key Features 1T-DA-726

- 3G/HD/SD Triple Rate Signal Processing
- Six Buffered and Reclocked Outputs
- Data Rates of 270/1483/1485/2970 Mbps
- Protocols DVB-ASI, SMPTE 259M, 292M, 424M, 425M
- Automatic Cable Equalization and Signal Retiming
- All Ancillary Data is passed to the outputs
- DAs can be cascaded for longer cable runs
- Front Panel Input Signal Lock & Rate LED
- Locking DC Power Connector

1T-DA-726 3G/HD/SD-SDI Distribution Amplifier provides 6 outputs from a single SDI input for distribution to devices capable of receiving and/or displaying such signals. The 1T-DA-726 3G/HD/SD-SDI Distribution Amplifier provides third generation HD/SD signal distribution with triple-rate processing and six separately buffered and relocked outputs. Data Rates of 270, 1483, 1485 and 2970 Mbps support DVB-ASI standards, as well as SMPTE 259M, 292M, 424M and 425M protocols. Automatic input cable equalization up to 300m (1000ft)@SD and 150m (500ft)@HD/3G is utilized. All ancillary data is passed through to the outputs, and since the SDI signals are relocked, multiple 1T-DA-3G/HD/SD-SDI Distribution Amplifiers can be cascaded for longer transmission runs. Front panel LEDs indicate that DC power is present and signal lock/relocking is in progress. Finally, the TV One exclusive locking power connector prevents inadvertent loss of DC power to the device.

1T-FC-677

3G/HD/SD-SDI Distribution Amplifier



Key Features 1T-FC-677

- 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

1T-FC-677 3G/HD/SD-SDI Distribution Amplifier with HDMI Converter provides two Equalized and Re-clocked outputs and 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.

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 TV One-task locking DC power connector to enhance overall system mechanical security.

Distribution Amplifiers

Distributor / Vertrieb:

VIDELCO – Professionelle Audio- Video- Medien-Technik!
Tel.: +49 (0)2102 / 86 39-00 • Fax: +49 (0)2102 / 86 39-17 • info@videlco.eu • www.videlco.eu

1T-DA-726 Specifications

Video Input

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

Video Outputs

3G/HD/SD-SDI 6x via BNC Connector

SDI Transport

SDI Standards 3G/HD/SD-SDI
Data Rates 270 / 1483 / 1485 / 2970 Mbps
Video Bandwidths [2.97Gpbs & 2.97/1.001Gbps]
Supported Protocols DVB-ASI@270Mbps, SMPTE 259M, 292M, 424M, 425M

Signal Reclocking All Outputs
Ancillary Data Pass-thru, All Outputs
I/O Impedance 75Ω

Eye Pattern (HD)

Amplitude 800mv (<10%)
Rise Overshoot <2% (<10%)
Fall Overshoot <2% (<10%)
Long Time Jitter 0.195usec (<1.0usec)
Timing Jitter 0.8usec (<1.0usec)
Alignment Jitter 0.13usec (<0.2usec)

Max Cable Distances

Reference: Belden 3G:150m(500'), HD:150m(500'), 1694A SD:300m(1000')

Warranty

Limited Warranty 3 Years Parts and Labor

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

Mechanical

Size (H-W-D) 30x200x90mm(1.18"x7.88"x3.54")
Weight (Net) 530g (1.17lbs)

Power Requirement

External Power Supply 5VDC@6A

Regulatory Approvals

SDI DA FCC, CE, RoHS
Power Supply UL, CUL, CE, PSE, GS, RoHS

Accessories Included

1x AC Power Adapter US, UK or Euro
1x Instruction Manual

Product Item Number

1T-DA-726 1x6 3G/HD/SD-SDI DA

1T-FC-677 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

Warranty

Limited Warranty 3 Years Parts and Labor

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

Regulatory Approvals

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

Mechanical

Size (H-W-D) 30x200x103.5mm (1.18x7.87x4.07")
Weight (Net) 585g (1.29 lbs)

Power Requirement

External Power Supply 5VDC@2A, Locking DC

Accessories Included

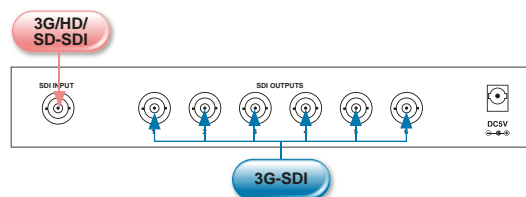
1x Power Adapter US, UK or Euro
1x User Manual

Model Number

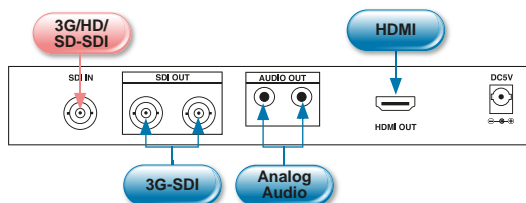
1T-FC-677 3G-SDI Extender/HDMI Converter



1T-DA-726



1T-FC-677



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