

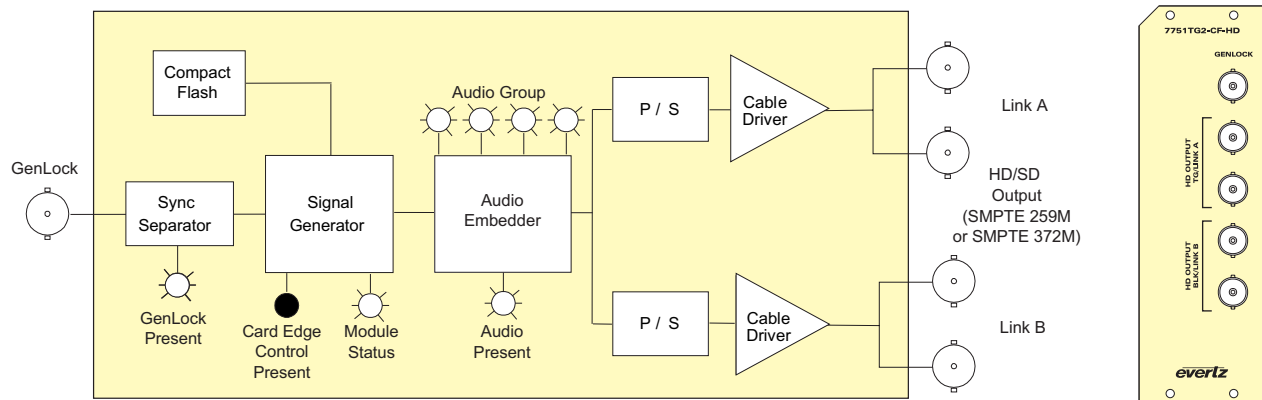
The 7751TG2-CF-HD Test Signal Generator provides a cost-effective method of generating 270Mb/s SDTV 4:2:2 and 1.5Gb/s HDTV 4:2:2 and 4:4:4 test signals. The 7751TG2-CF-HD is ideal for checking signal path integrity, or to determine system performance over varying cable lengths. The 7751TG2-CF-HD generates test signals in a wide variety of SMPTE 292M and SMPTE 259M video formats. In single link mode, the 7751TG2-CF-HD outputs a 4:2:2 black signal on two outputs and the selected 4:2:2 test signal on the remaining two outputs. In dual link mode, the 7751TG2-CF-HD outputs a 4:4:4 test signal on two dual-link 4:4:4 outputs. The 7751TG2-CF-HD provides an analog genlock input that allows you to synchronize the test signals to your plant horizontal and vertical timing.

The 7751TG2-CF-HD provides downloadable bitmaps for trouble or test slides. Customers may store their own designed bitmaps (trouble slides, test slides, or test signals) into a directory structure on the compact flash. The module allows users to output one trouble slide on a pair of outputs and another trouble slide on the second pair of outputs. The 7751TG2-CF-HD comes with a 128MB compact flash.

Separate audio tones or user created WAV files can be embedded into each channel of two of the four embedded audio groups. The user can select which of the audio groups the tones will be embedded into. In dual link mode, the selected audio groups will be embedded into each link. The Audio level is fixed at -20dB full scale.

### ►Features & Benefits

- Wide variety of 1080i, 1035i, 1080p, 480p, 720p, 525i and 625i output formats
- Compact flash for user-created bitmaps (trouble slides, test slides, or test signals)
- Two user-created bitmaps are sent individually on outputs
- User created WAV files can be sent in the embedded audio groups
- 8 position DIP switch selects output format, single or dual link and genlock reference
- Card edge toggle switch selects test signal
- Selectable gen lock input format - bi-level or tri-level sync, color black
- Embedded audio tones for 4 groups selectable audio group assignment
- SMPTE 334M - CEA-708 advanced captioning test packet
- 2 black outputs, 2 test gen. outputs
- On-screen display of test signal names
- On-screen setup menu
- Card edge LEDs indicate gen lock presence, module fault and audio signal presence on the output



### ►Specifications

#### Gen Lock Input:

Type: Menu selectable - depends on output video format  
 HD Tri-level Sync  
 NTSC or PAL Color Black 1V p-p  
 Composite Bi-level sync (525i or 625i)  
 300mV  
 Connector: BNC per IEC 61169-8 Annex A  
 Termination: 75Ω (jumper selectable)

#### Serial Video Outputs:

Standard: SMPTE 259M-C, SMPTE 292M, 4:2:2  
 YCBCR (single link)  
 SMPTE 372M, 4:4:4 YCBCR or 4:4:4  
 GBRA (dual link)

#### Number of Outputs:

Single Link Mode: 2 outputs of Black video  
 2 outputs of selected test signal  
 Dual Link Mode: 2 dual link outputs of selected test signal

Embedded Audio: Up to 4 groups in one audio group as specified in SMPTE272M or 299M  
 Selectable tone frequencies (from 60Hz to 10kHz) and audio group. Audio can be embedded on either or both links. Audio Level is set to -20dB Full Scale

#### Source ID:

User-programmable on-screen 15 character source ID message - selectable position. On-screen message can be displayed on either or both links  
 Connectors: 4 BNC per IEC 61169-8 Annex A  
 Signal Level: 800mV nominal  
 V Phasing: Infinite lines  
 H Phasing: Infinite samples  
 DC Offset: 0V ±0.5V  
 Rise and Fall Time: 200ps nominal (HD)  
 740ps nominal (SD)  
 Overshoot: < 10% of amplitude  
 Wide Band Jitter: < 0.2 UI

#### Electrical:

Voltage: +12V DC  
 Power: 6W  
 EMI/RFI: Complies with FCC Part 15, Class A  
 EU EMC Directive

#### Physical:

7700 or 7701 frame mounting:  
 Number of slots: 1

#### Stand Alone Enclosure:

Dimensions: 14"L x 4.5"W x 1.9"H  
 (355mm L x 114mm W x 48mm H)  
 Weight: approx. 1.5lbs (0.7kg)

### ►►►Ordering Information

**7751TG2-CF-HD** HD/SD-SDI Test Signal Generator with Trouble Slide

**Ordering Options** Rear Plate and Fiber Connector must be specified at time of order  
 Eg. Model +3RU +SC

#### Rear Plate Suffix

+3RU 3RU Rear Plate for use with 350FR & 7700FR-C Multiframe  
 +1RU 1RU Rear Plate for use with 7701FR Multiframe  
 +SA Standalone Enclosure Rear Plate

#### Enclosures

350FR  
 7700FR-C  
 7701FR  
 S7701FR

3RU Portable Multiframe which holds up to 7 single slot modules  
 3RU Multiframe which holds up to 15 single slot modules  
 1RU Multiframe which holds up to 3 single or dual slot modules  
 Standalone enclosure