

# 7767VIP8-HSN, 7767VIP8-HSN-G and 7767VIP8-SN

## VIP™ Eight Input Video Monitoring & Display

The 7767VIP8 signal monitoring module simultaneously accepts, auto-detects, analyzes and displays eight synchronous or asynchronous HD/SD/Analog video signals. A ninth input is a computer graphic input for display of a dynamic background image. Displaying up to WUXGA (1920x1200) resolution, the 7767VIP8 module fits conveniently into Evertz® universally installed 7800FR frame, and provides a cost-effective & space-efficient signal monitoring & display solution.

The 7767VIP8 module is VistaLINK® -capable, offering remote monitoring, control and configuration capabilities via Simple Network Management Protocol (SNMP). This product feature offers another solution to manage operations including signal monitoring and module configuration from SNMP -capable control systems (Manager or NMS) locally or remotely.



### ►Features & Benefits

#### Video Inputs

- Up to eight auto-sensing HD/SD/NTSC/PAL inputs (same BNC)
- Accepts either 4:3 or 16:9
- Auto-detects 525/625 format SD inputs (single frame rate conversion)
- Computer graphic input (DVI-I up to UXGA resolution) source is used for background display or for cascading multiple VIP™ modules together. Also can be used in place of the last video input as a scaled source.

#### Audio Inputs

- Handles embedded, discrete unbalanced AES/EBU, and balanced analog audio via break-out panel
- VU/PPM level indicators

#### Video Output

- One DVI-I output - Drive a single DVI-D and a single RGBHV (VGA-type) display simultaneously with the same content up to WUXGA (1920x1200 resolution)
- One selectable HD/SD serial digital (BNC) video output, also carrying same content as DVI-I output or select from input
- Minimal processing delay (~1 frame)
- Optional fiber output (-G option)
- Optional support for "portrait" display via 2430GDAC-WARP
- Thumbnails of any or all selected inputs to VistaLINK® PRO Thumbnail Server (or equivalent)

#### Graphics

- User-configurable tally indicators and configurable UMD static and/or dynamically updated text, background colors
- User-configurable borders
- LTC input drives digital clock display
- Count-up or down timer displays (GPI triggered)

#### Signal Monitoring

- Extensive list of user-configurable signal fault conditions with "logic" settings
- Detects frozen video (patent pending) and black video
- User-configurable fault condition alert messages per video input with configurable background colors, opacities, thresholds and duration settings
- Closed caption presence detection
- WSS detection

#### Auxiliary Inputs

- RS-232/422 communication port Interface to common UMD protocols -TSL, Image Video
- 20 assignable general purpose inputs, 8 general purpose outputs

#### Physical

- Number of slots - 3
- Genlock reference loop input for proper timing - 1 NTSC/PAL
- Fast power-cycle time (< 30 seconds)

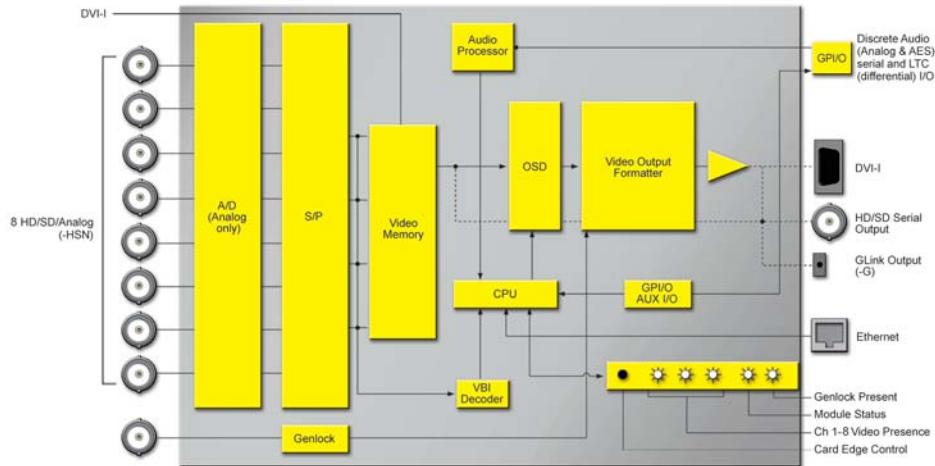
#### Network Management

- Built-in VistaLINK® support for remote monitoring and control via SNMP (using VistaLINK® PRO)
- The 7767VIP module does not require a 7700FC VistaLINK® Frame Controller
- A direct Ethernet connection to the network for VistaLINK® operations must be provided by user
- Screen configurations via Maestro-VIP™ GUI software (included)
- Web browser interface allows for simple configuration without the need for additional software

# 7767VIP8-HSN, 7767VIP8-HSN-G and 7767VIP8-SN

## VIP™ Eight Input Video Monitoring & Display

### ► 7767VIP8 Block Diagram & Rear Panel



### ► Specifications

#### Digital Video Inputs:

Standard: Auto-sensing HD-SDI (SMPTE 292M, SD-SDI (SMPTE 259M-C))  
Number of Inputs: Up to 8  
Connector: BNC IEC 61169-8 Annex A  
Equalization: Automatic to 100m (Belden 1694A)  
Return Loss: > 15dB up to 270Mb/s  
Embedded Audio: SMPTE 272M-A, SMPTE 299M

#### Composite Analog Video Inputs:

Standard: NTSC (SMPTE 170M), PAL (ITU624-3)  
Number of Inputs: Up to 8  
Connector: BNC IEC 61169-8 Annex A  
Signal Level: 1V nominal  
DC Offset: 0V  $\pm$  0.1V  
Input Impedance: 75 $\Omega$   
Return Loss: 40dB up to 5MHz

#### Background (Computer) Video Input:

Standard: Auto-detecting, VESA (DVI-I, for DVI and RGBHV inputs)  
Number of Inputs: 1  
Connector: DVI-I (Female)  
Input Resolution: 640x480 (VGA) to 1600x1200 (UXGA)  
Signal Level: 1V nominal

#### Discrete Digital AES Audio Inputs:

Standard: SMPTE 276M  
Number of Inputs: 4 AES per video input  
Connector: Dual SCSI (F)  
Resolution: 24-bit  
Sampling Rate: 48kHz  
Impedance: 75 $\Omega$  unbalanced

#### Discrete Analog Audio Inputs:

Number of Inputs: 12 balanced stereo audio pairs  
Connector: Dual SCSI (F)  
Input Impedance: 20 k $\Omega$  minimum (differential)  
Sampling Frequency: 48kHz  
Peak Signal and Common Mode Level: 30dBu

#### Display Video Output:

Standard: VESA (DVI-I) up to WUXGA (1920x1200)  
Number of Outputs: 1  
Connector: DVI (with DVI to RGBHV Adapter)  
Video: 1V p-p RGB or 0.7V p-p VGA, 60Hz refresh  
Impedance: 75 $\Omega$

#### Serial Video Output:

Standard: Selectable HD/SD serial monitoring output (720p, 1080i, 625i, 525i)  
Number of Outputs: 1  
Connector: BNC IEC 61169-8 Annex A  
Signal Level: 800mV nominal  
DC Offset: 0V  $\pm$  0.5V  
Rise & Fall Time: 200ps nominal (HD), 740ps nominal (SD)  
Overshoot: < 10% of amplitude

#### Genlock Input:

Type: NTSC/PAL color black  
Level: 1V p-p nominal  
Connector: BNC IEC 61169-8 Annex A

#### General Purpose Interface I/O (GPI/GPO):

Type: GPI: 20 Opto-isolated, active low with internal pull-ups to +5V  
GPO: 8 Relay closure to ground  
Connector: Breakout panel TBlocks via SCSI connection to dual SCSI (F)  
Input Signal: Closure to ground

#### Data Input/Output Serial Port:

Number of Ports: 1 RS-232 or 1 RS-422  
Connector: Breakout panel TBlocks via SCSI connection to dual SCSI (F)  
Baud Rate: Up to 1Mbaud  
Format: Configurable for various UMD interfaces

#### Ethernet:

Network Type: Fast Ethernet 100 Base-TX 1EEE  
802.3U standard for 100Mb/s baseband CSMA/CD local area network  
Connector: RJ-45

#### Electrical:

Voltage: +12V DC  
Power: < 39W  
Safety: CSA Listed, complies with EU safety directives  
EMI/RFI: Complies with FCC Part 15, Class A EU EMC Directive

#### Physical:

350FR: 3  
7700FR-C: 3  
7800FR: 3

### ► Ordering Information

|                       |                                                                                                                                                                                                                                                                                                                                      |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>7767VIP8-HSN</b>   | Up to eight asynchronous HD/SD/NTSC/PAL inputs with embedded audio, one background DVI-I (DVI-D or RGBHV with adapter) input. Single DVI-I (DVI-D or RGBHV with adapter) or one serial monitor output. Includes VistaLINK® VLPRO-C software configuration tool, GPI/O break-out panel (BHP-AUX) and Maestro-VIP™ display layout GUI. |
| <b>7767VIP8-HSN-G</b> | Up to eight asynchronous SD/NTSC/PAL inputs with embedded audio, one background DVI-I (DVI-D or RGBHV with adapter) input. Single DVI-I (DVI-D or RGBHV with adapter) or one serial monitor output. Includes VistaLINK® VLPRO-C software configuration tool, GPI/O break-out panel (BHP-AUX) and Maestro-VIP™ display layout GUI.    |
| <b>7767VIP8-SN</b>    | Up to eight asynchronous SD/NTSC/PAL inputs with embedded audio, one background DVI-I (DVI-I or RGBHV with adapter) input. Single DVI-I (DVI-D or RGBHV with adapter) or one serial monitor output. Includes VistaLINK® VLPRO-C software configuration tool, GPI/O break-out panel (BHP-AUX) and Maestro-VIP™ display layout GUI.    |

**Ordering Options** Rear Plate must be specified at time of order  
Eg: Model +3RU

#### Rear Plate Suffix

+3RU 3RU Rear Plate for use with 350FR, 7700FR-C or 7800FR Multiframe  
+SA Rear Plate for Standalone

#### Accessories

**2430GDAC** GLink to DVI converter (extender requires -G module)  
**2430GDAC-WARP** GLink to DVI converter (extender and portrait mode display, requires -G module)  
**7767VIP-AI-U** Discrete unbalanced AES/EBU audio input (4 AES per video input) support with breakout panel  
**7767VIP-AI-BAL** Discrete balanced analog audio input support with breakout panel  
**3000MKT-AUX** Dual BHP-AUX auxiliary GPI/O and serial break-out panel rack mounting kit

#### Enclosures

**350FR** 3RU Portable Multiframe which holds up to 7 single slot modules  
**7700FR-C** 3RU Multiframe which holds up to 15 single slot modules  
**7800FR** 3RU Multiframe which holds up to 15 single slot modules  
**S7702FR** Standalone enclosure