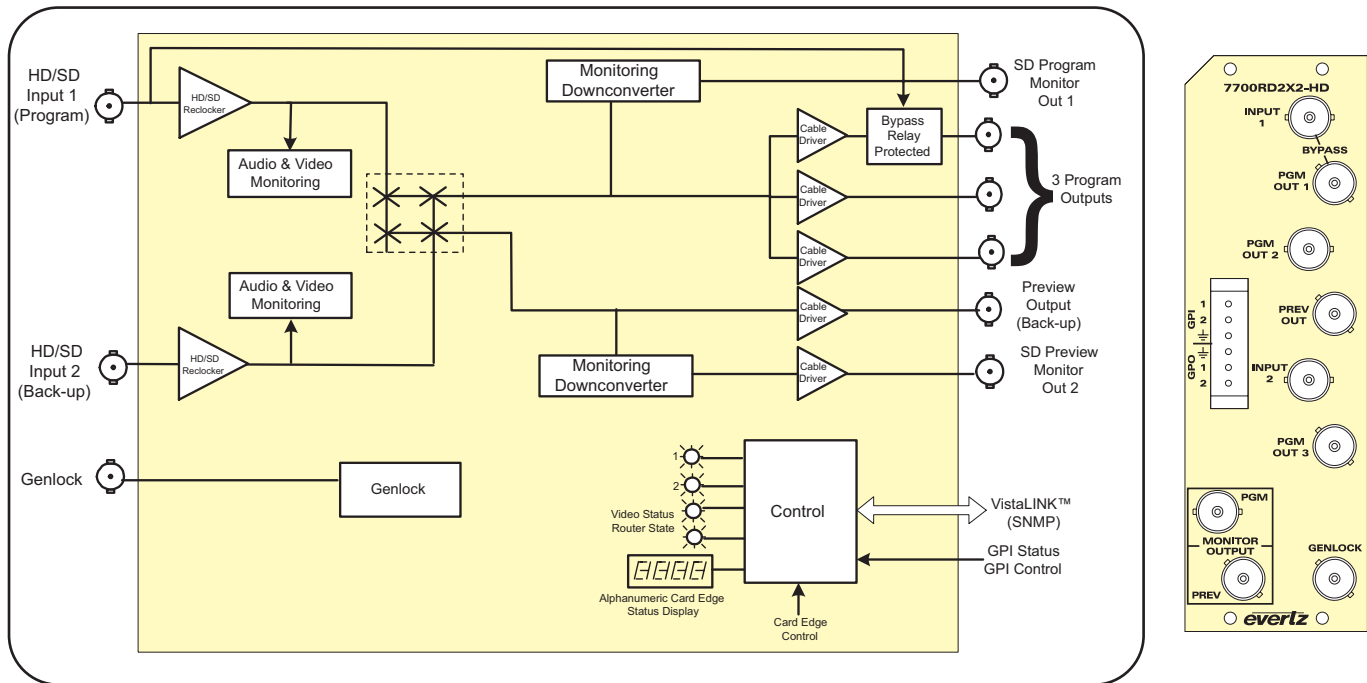


# 2 X 2 HD/SD Router with Dual HD Down Converters



## Model 7700RD2x2-HD



The 7700RD2x2-HD is a HD/SD SDI bypass router which includes monitoring downconverted outputs for HD inputs (for SD inputs, those monitoring outputs act as pass through outputs). This 7700 series module has 3 reclocked primary outputs and 1 reclocked secondary output.

The program output is bypass relay protected and provides protection on the program path. If module is removed from enclosure the program path is maintained.

The two inputs are being monitored at all times for video loss or invalid input (proper EAV/SAV structure and timing).

Status is provided using a number of methods.

- On Card edge 4 character alphanumeric display
- Card edge LED status for router state, signal presence, etc.
- Tally output on GPI's for router state
- SNMP reporting and monitoring via VistaLINK™ PRO or any SNMP compliant manager

Output selection and control of the selector can be achieved a number of methods.

- Contact closures (GPI control)
- Card edge control
- Via network control panels (9000NCP, 9000NCP2)
- VistaLINK™ provides a software GUI interface for control and monitoring of the device. VistaLINK™ can be used to manual control the switch or be configured to trigger a change based on specific errors and thresholds.

VistaLINK™ enables remote monitoring, control and configuration capabilities via Simple Network Management Protocol (SNMP). This offers the flexibility to manage operations including signal monitoring and module configuration from SNMP enabled control systems (Manager or NMS) locally or remotely.

# 2 X 2 HD/SD Router with Dual HD Down Converters

## Features

- Switch point is controllable when a genlock reference is provided.
- Bypass relay protection on program output
- GPI control inputs
- GPI selector status outputs
- Downconverted preview and program output

## Specifications

### Serial Video Input:

<b>Standard:</b>	1.485Gb/s SMPTE 292M - SMPTE 274M, SMPTE 296M, SMPTE 349M 270Mb/s SMPTE 259M-C 525i/59.94 or 625i/50
<b>Connector:</b>	2 BNC per IEC 60169-8 Amendment 2
<b>Input Equalization:</b>	SD Automatic to 300m @ 270Mb/s and HD Automatic to 100m @ 1.5Gb/s with Belden 1694A or equivalent cable
<b>Return Loss:</b>	> 12dB up to 1.5GHz

### Serial Video Output (Program/Preview):

<b>Program Outputs:</b>	3 (1 program bypass relay protected)
<b>Preview Outputs:</b>	1
<b>Connector:</b>	BNC per IEC 60169-8 Amendment 2
<b>Signal Level:</b>	800mV nominal
<b>DC Offset:</b>	0V $\pm$ 0.5V
<b>Rise/Fall Time:</b>	200ps nominal (HD) or 900ps nominal (SD)
<b>Overshoot:</b>	< 10% of amplitude
<b>Wideband Jitter:</b>	< 0.2UI
<b>Return Loss:</b>	> 15dB up to 1.5GHz

### Serial Video Output (Downconverted):

<b>Standard:</b>	SMPTE 259M
<b>Outputs:</b>	1 Program 1 Preview
<b>Connector:</b>	BNC per IEC 60169-8 Amendment 2
<b>Signal Level:</b>	800mV nominal
<b>DC Offset:</b>	0V $\pm$ 0.5V
<b>Overshoot:</b>	< 10% of amplitude
<b>Wideband Jitter:</b>	< 0.2UI
<b>Return Loss:</b>	> 15dB up to 270MHz

### Genlock Input:

<b>Standard:</b>	HD Tri-level Sync NTSC/PAL Color Black 1V p-p or Composite Bi-level sync (525i/59.94 or 625i/50) 300mV
<b>Connector:</b>	BNC per IEC 60169-8 Amendment 2 Termination 75 $\Omega$ (jumper selectable)

### GPI Control Port:

<b>Number:</b>	4 (2 input, 2 output)
<b>Type:</b>	Opto-isolated, active low with internal pull-ups to +5 or +12V (jumper settable)
<b>Connector:</b>	6 pin removable terminal block
<b>Signal Level:</b>	Closure to ground

### Electrical:

<b>Voltage:</b>	+12VDC
<b>Power:</b>	12 Watts
<b>EMI/RFI:</b>	Complies with FCC Part 15, Class A EU EMC Directive

### Physical:

<b>Number of slots:</b>	2
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### Ordering Information:

<b>7700RD2x2-HD</b>	2x2 HD/SD router with Dual HD Downconverters
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### Ordering Options

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

### Rear Plate Suffix

<b>+3RU</b>	3RU Rear Plate for use with 7700FR-C Multiframe
<b>+1RU</b>	1RU Rear Plate for use with 7701FR Multiframe
<b>+SA</b>	Standalone Enclosure Rear Plate

### Enclosures:

<b>7700FR-C</b>	3RU Multiframe which holds 15 modules
<b>7701FR</b>	1RU Multiframe which holds 3 modules
<b>S7701FR</b>	Standalone enclosure