

The 7700R2x2-HD series modules are bypass routers for 1.5 Gb/s HDTV or standard definition 270 Mb/s serial digital video signals. There are three distinct models in the series offering a cost effective solution for your specific requirements. The 7700R2x2-HD series modules accept all the popular international SMPTE 292M video formats as well as 525 and 625 line SMPTE 259M-C video formats.

These 7700 series modules provide 3 reclocked primary outputs and 1 reclocked backup 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 7700RD2x2-HD model also provides monitoring downconverted outputs for HD signals and pass-through reclocked outputs for SDI signals.

The 7700R2x2-HES-HD has all the features of the 7700R2x2-HD and is also equipped with SoftSwitchÔ, which provides clean video and "popless" embedded audio switching. The video output has adjustable vertical timing with respect to the genlock input. The line synchronizers on the video inputs can accommodate differences in timing of up to +/- ½ line providing clean video switches on the video outputs. The embedded audio uses Evertz' patent pending SoftSwitchÔ technology to eliminate audio pops when switches are performed on synchronous audio sources.

The two inputs are being monitored at all times for a variety of error conditions and status

- Video loss or invalid at input (proper EAV/SAV structure and timing)
- Status of embedded audio
 Status of router selection

Status is provided using a number of methods.

- 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.

An advanced monitoring and status option is available. This option allows for thumbnail viewing of the inputs remotely. Thumbnails are streamed over TCP/IP and viewed with the VistaLINK® suite of software. This option also provides advanced monitoring for several video and audio error conditions. Provisions for durations and thresholds are provided for all the monitored parameters.

The 7700R2x2-HD and 7700R2x2-HES-HD occupies one card slot and can be housed in the 3 RU frame, which will hold up to 15 single slot modules, or one the 1RU frame, which will hold up to three modules. The 7700RD2x2-HD occupies two card slots in the 3 RU frame or 1 slot in the 1RU frame.

Features:

- Serial digital 1.5 Gb/s HD input per SMPTE 292M (1080i/59.94, 1080i/50, 720p/59.94, 720p/50) or 270 Mb/s SDI input per SMPTE 259M-C (525i/59.94 or 625i/50) auto senses HD or SD inputs
- 3 Reclocked program outputs, 1 reclocked preview on primary (HD if HD inputs applied, SD if SD inputs applied)
- Bypass relay protection on program output
- Switch point is controllable when a genlock reference is provided.
- GPI control inputs
- GPI selector status outputs
- Card edge menu used to configure the operating modes
- Card Edge LEDs for signal presence, router state, module status

• VistaLINK® capable offering remote monitoring, control and configuration capabilities via SNMP. VistaLINK® is available when modules are used with the 3RU 7700FR-C frame and a 7700FC VistaLINK® Frame Controller module in slot 1 of the frame using the model 9000NCP Network Control Panel or Evertz VistaLINK® PRO or other third party SNMP manager software.

Additional features on 7700RD2x2-HD model only

- 1 program and one preview monitor SDI output (downconverted from HD if HD input applied), (reclocked SD if SD input applied)
- Supports 16:9 letterbox, 4:3 center crop, and 4:3 anamorphic squeeze aspect ratio conversions.
- HD to SD colour space conversion (ITU rec. 709 to ITU rec. 601)

Additional features on 7700R2x2-HES-HD model only

- Supports up to 16 channels of embedded audio
- SoftSwitchÔ technology provides clean video and "popless" embedded audio switching
- Configurable group selection for SoftSwitchÔ
- Dolby E compliant.

• 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.

An advanced monitoring and status option is available. This option allows for thumbnail viewing of the inputs remotely. Thumbnails are streamed over TCP/IP and viewed with the VistaLINK® suite of software. This option also provides advanced monitoring for several video and audio error conditions. Provisions for durations and thresholds are provided for all the monitored parameters.

The 7700R2x2-HD and 7700R2x2-HES-HD occupies one card slot and can be housed in the 3 RU frame, which will hold up to 15 single slot modules, or one the 1RU frame, which will hold up to three modules. The 7700RD2x2-HD occupies two card slots in the 3 RU frame or 1 slot in the 1RU frame.

Features:

- Serial digital 1.5 Gb/s HD input per SMPTE 292M (1080i/59.94, 1080i/50, 720p/59.94, 720p/50) or 270 Mb/s SDI input per SMPTE 259M-C (525i/59.94 or 625i/50) auto senses HD or SD inputs
- 3 Reclocked program outputs, 1 reclocked preview on primary (HD if HD inputs applied, SD if SD inputs applied)
- Bypass relay protection on program output
- Switch point is controllable when a genlock reference is provided.
- GPI control inputs
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- VistaLINK® capablic offering remote monitoring, control and configuration capabilities via SNMP. VistaLINK® is available when modules are used with the 3RU 7700FR-C frame and a
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 ware.

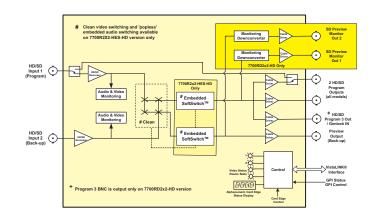
Additional features on 7700RD2x2-HD model only

- 1 program and one preview monitor SDI output (downconverted from HD if HD input applied), (reclocked SD if SD input applied)
- Supports 16:9 letterbox, 4:3 center crop, and 4:3 anamorphic squeeze aspect ratio conversions. HD to SD colour space conversion (ITU rec. 709 to ITU rec. 601) ٠ •

Additional features on 7700R2x2-HES-HD model only • Supports up to 16 channels of embedded audio

- •
- SoftSwitchÔ technology provides clean video and "popless" embedded audio switching Configurable group selection for SoftSwitchÔ .
- Dolby E compliant.

7700R2x2-HD, 7700R2x2-HES-HD & 7700RD2x2-HD Router Block Diagram



Specifications

Specifications			
Serial Video Input:		Connector:	6 pins removable terminal block
Standard:	Auto-detects standard	Signal Level:	closure to ground
	1.485 Gb/sec SMPTE 292M (1080i/59.94, 1080i/50, 720p/59.94,		
	720p/50) SMPTE 260M, SMPTE 274M, SMPTE 296M, SMPTE 349M		sing Delay (HD input video on (7700RD2x2-HD only):
	(HD or SD carrier)	Downconverter Video D	elay:
	270 Mb/s SMPTE 259M-C (525i/59.94 or 625i/50)		Approximately 1 to 2 frames depending on input video format,
Connector:	2 BNC per IEC 60169-8 Amendment 2.		processing mode.
Input Equalization:	Automatic to 100m @ 1.5Gb/s with Belden 1694 or equivalent cable.		
Return Loss:	>20 dB up to 270 MHz	Electrical:	
Return Loss.	>12 dB up to 1.5GHz	Voltage:	+12VDC
	>12 dB dp to 1.5G1/2	Power:	
Reclocked Serial Video Router Outputs:		7700R2x2-HD	10 Watts.
Standard:	Same as input	7700R2x2-HES-HD	10 Watts.
	•	7700RD2x2-HD	14 Watts.
Number of Outputs:	3 Program outputs reclocked, (1 output is bypass relay protected)	EMI/RFI:	Complies with FCC regulations for class A devices.
0	1 preview output		Complies with EU EMC directive.
Connector:	BNC per IEC 60169-8 Amendment 2		
Signal Level:	800mV nominal	Physical:	
DC Offset:	0V ±0.5V	Number of slots	
Rise and Fall Time:	200ps nominal for HD	7700 frame mounting:	
	900ps nominal for SD	7700R2x2-HD	1
Overshoot::	<10% of amplitude	7700R2x2-HES-HD	1
Return Loss:	>20 dB up to 270 MHz	7700RD2x2-HD	2
	> 15 dB at 1.5 Gb/s	TTOOLDERE-TID	2
Jitter:	< 0.16UI (HD) or < 0.10UI (SD)	7701 frame mounting:	
		7701 frame mounting:	1
Downconverted Serial \	ideo Outputs (7700RD2x2-HD-only):	7701 frame mounting: All versions:	1
Downconverted Serial V Standard:	<u>fideo Outputs (7700RD2x2-HD-only):</u> SMPTE 259M-C (270 Mb/s)		1
Downconverted Serial V Standard: Number of Outputs:	/ <mark>ideo Outputs (7700RD2x2-HD-only):</mark> SMPTE 259M-C (270 Mb/s) 1 Program 1 preview	All versions:	
Downconverted Serial V Standard: Number of Outputs: Connector:	/ideo Outputs (7700RD2x2-HD-only): SMPTE 259M-C (270 Mb/s) 1 Program 1 preview BNC per IEC 60169-8 Amendment 2.	All versions: Ordering Informat	ion:
Downconverted Serial \ Standard: Number of Outputs: Connector: Signal Level:	fideo Outputs (7700RD2x2-HD-only): SMPTE 259M-C (270 Mb/s) 1 Program 1 preview BNC per IEC 60169-8 Amendment 2. 800mV nominal	All versions: Ordering Informat 7700R2x2-HD	ion: 2x2 HD/SD Router
Downconverted Serial \ Standard: Number of Outputs: Connector: Signal Level: DC Offset:	Tideo Outputs (7700RD2x2-HD-only): SMPTE 259M-C (270 Mb/s) 1 Program 1 preview BNC per IEC 60169-8 Amendment 2. 800mV nominal 0V ±0.5V	All versions: Ordering Informat 7700R2x2-HD 7700R2x2-HES-HD	ion: 2x2 HD/SD Router 2x2 HD/SD Router with SoftSwitch™
Downconverted Serial V Standard: Number of Outputs: Connector: Signal Level: DC Offset: Rise and Fall Time:	7/deo Outputs (7700RD2x2-HD-only): SMPTE 259M-C (270 Mb/s) 1 Program 1 preview BNC per IEC 60169-8 Amendment 2. 800mV nominal 0V ±0.5V 750ps nominal	All versions: Ordering Informat 7700R2x2-HD	ion: 2x2 HD/SD Router
Downconverted Serial V Standard: Number of Outputs: Connector: Signal Level: DC Offset: Rise and Fall Time: Overshoot:	'ideo Outputs (7700RD2x2-HD-only): SMPTE 259M-C (270 Mb/s) 1 Program 1 preview BNC per IEC 60169-8 Amendment 2. 800mV nominal 0V ±0.5V 750ps nominal <10% of amplitude	All versions: Ordering Informat 7700R2x2-HD 7700R2x2-HES-HD 7700RD2x2-HD	ion: 2x2 HD/SD Router 2x2 HD/SD Router with SoftSwitch™
Downconverted Serial V Standard: Number of Outputs: Connector: Signal Level: DC Offset: Rise and Fall Time: Overshoot: Return Loss:	Video Outputs (7700RD2x2-HD-only): SMPTE 259M-C (270 Mb/s) 1 Program 1 preview BNC per IEC 60169-8 Amendment 2. 800mV nominal 0V ±0.5V 750ps nominal <10% of amplitude > 15 dB at 270 Mb/s	All versions: Ordering Informat 7700R2x2-HD 7700R2x2-HES-HD 7700RD2x2-HES-HD 7700RD2x2-HD Ordering Options	tion: 2x2 HD/SD Router 2x2 HD/SD Router with SoftSwitch™ 2x2 HD/SD Router with dual HD Downconverter
Downconverted Serial V Standard: Number of Outputs: Connector: Signal Level: DC Offset: Rise and Fall Time: Overshoot:	'ideo Outputs (7700RD2x2-HD-only): SMPTE 259M-C (270 Mb/s) 1 Program 1 preview BNC per IEC 60169-8 Amendment 2. 800mV nominal 0V ±0.5V 750ps nominal <10% of amplitude	All versions: Ordering Informat 7700R2x2-HD 7700R2x2-HES-HD 7700RD2x2-HES Ordering Options Rear Plate must be speci	tion: 2x2 HD/SD Router 2x2 HD/SD Router with SoftSwitch™ 2x2 HD/SD Router with dual HD Downconverter
Downconverted Serial V Standard: Number of Outputs: Connector: Signal Level: DC Offset: Rise and Fall Time: Overshoot: Return Loss: Jitter:	Video Outputs (7700RD2x2-HD-only): SMPTE 259M-C (270 Mb/s) 1 Program 1 preview BNC per IEC 60169-8 Amendment 2. 800mV nominal 0V ±0.5V 750ps nominal <10% of amplitude > 15 dB at 270 Mb/s	All versions: Ordering Informat 7700R2x2-HD 7700R2x2-HES-HD 7700RD2x2-HES-HD 7700RD2x2-HD Ordering Options	tion: 2x2 HD/SD Router 2x2 HD/SD Router with SoftSwitch™ 2x2 HD/SD Router with dual HD Downconverter
Downconverted Serial V Standard: Number of Outputs: Connector: Signal Level: DC Offset: Rise and Fall Time: Overshoot: Return Loss: Jitter: <u>Genlock Input:</u>	Tideo Outputs (7700RD2x2-HD-only): SMPTE 259M-C (270 Mb/s) 1 Program 1 preview BNC per IEC 60169-8 Amendment 2. 800mV nominal 0V ±0.5V 750ps nominal <10% of amplitude > 15 dB at 270 Mb/s < 0.2 UI	All versions: Ordering Informat 7700R2x2-HD 7700R2x2-HES-HD 7700R2x2-HES-HD 7700R2x2-HD Ordering Options Rear Plate must be speci Eg: Model +3RU	tion: 2x2 HD/SD Router 2x2 HD/SD Router with SoftSwitch™ 2x2 HD/SD Router with dual HD Downconverter
Downconverted Serial V Standard: Number of Outputs: Connector: Signal Level: DC Offset: Rise and Fall Time: Overshoot: Return Loss: Jitter:	Tideo Outputs (7700RD2x2-HD-only): SMPTE 259M-C (270 Mb/s) 1 Program 1 preview BNC per IEC 60169-8 Amendment 2. 800mV nominal 0V ±0.5V 750ps nominal <10% of amplitude > 15 dB at 270 Mb/s < 0.2 UI NTSC or PAL Colour Black 1 V p-p	All versions: Ordering Informat 7700R2x2-HD 7700R2x2-HES-HD 7700RD2x2-HES-HD 7700RD2x2-HES Ordering Options Rear Plate must be speci Eg: Model +3RU Rear Plate Suffix	ion: 2x2 HD/SD Router 2x2 HD/SD Router with SoftSwitch™ 2x2 HD/SD Router with dual HD Downconverter fied at time of order
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Downconverted Serial V Standard: Number of Outputs: Connector: Signal Level: DC Offset: Rise and Fall Time: Overshoot: Return Loss: Jitter: <u>Genlock Input:</u>	'ideo Outputs (7700RD2x2-HD-only): SMPTE 259M-C (270 Mb/s) 1 Program 1 preview BNC per IEC 60169-8 Amendment 2. 800mV nominal 0V ±0.5V 750ps nominal <10% of amplitude > 15 dB at 270 Mb/s < 0.2 UI NTSC or PAL Colour Black 1 V p-p HD Tri-level Sync BNC per IEC 60169-8 Amendment 2	All versions: Ordering Informat 7700R2x2-HD 7700R2x2-HES-HD 7700RD2x2-HB 0rdering Options Rear Plate must be speci Eg: Model +3RU Rear Plate Suffix +3RU +1RU	ion: 2x2 HD/SD Router 2x2 HD/SD Router with SoftSwitch™ 2x2 HD/SD Router with dual HD Downconverter fied at time of order 3RU Rear Plate for use with 7700FR-C Multiframe 1RU Rear Plate for use with 7701FR Multiframe
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Downconverted Serial V Standard: Number of Outputs: Connector: Signal Level: DC Offset: Rise and Fall Time: Overshoot: Return Loss: Jitter: <u>Genlock Input:</u> Type: Connector:	'ideo Outputs (7700RD2x2-HD-only): SMPTE 259M-C (270 Mb/s) 1 Program 1 preview BNC per IEC 60169-8 Amendment 2. 800mV nominal 0V ±0.5V 750ps nominal <10% of amplitude > 15 dB at 270 Mb/s < 0.2 UI NTSC or PAL Colour Black 1 V p-p HD Tri-level Sync BNC per IEC 60169-8 Amendment 2	All versions: Ordering Informat 7700R2x2-HD 7700R2x2-HES-HD 7700RD2x2-HB 0rdering Options Rear Plate must be speci Eg: Model +3RU Rear Plate Suffix +3RU +1RU	ion: 2x2 HD/SD Router 2x2 HD/SD Router with SoftSwitch™ 2x2 HD/SD Router with dual HD Downconverter fied at time of order 3RU Rear Plate for use with 7700FR-C Multiframe 1RU Rear Plate for use with 7701FR Multiframe
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Downconverted Serial V Standard: Number of Outputs: Connector: Signal Level: DC Offset: Rise and Fall Time: Overshoot: Return Loss: Jitter: <u>Genlock Input:</u> Type: Connector: Termination: <u>GPIO Control Port:</u> Number of Inputs:	'ídeo Outputs (7700RD2x2-HD-only): SMPTE 259M-C (270 Mb/s) 1 Program 1 preview BNC per IEC 60169-8 Amendment 2. 800mV nominal 0V ±0.5V 750ps nominal <10% of amplitude > 15 dB at 270 Mb/s < 0.2 UI NTSC or PAL Colour Black 1 V p-p HD Tri-level Sync BNC per IEC 60169-8 Amendment 2 High impedance or internal 75 ohm termination (jumper selectable)	All versions: Ordering Informat 7700R2x2-HD 7700R2x2-HES-HD 7700R2x2-HES-HD 7700RD2x2-HD Ordering Options Rear Plate must be speci Eg: Model +3RU Rear Plate Suffix +3RU +1RU +3RU +1RU +SA Enclosures: 7700FR-C	ion: 2x2 HD/SD Router 2x2 HD/SD Router with SoftSwitch™ 2x2 HD/SD Router with dual HD Downconverter fied at time of order 3RU Rear Plate for use with 7700FR-C Multiframe 1RU Rear Plate for use with 7701FR Multiframe Standalone Enclosure Rear Plate 3RU Multiframe which holds 15 modules
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