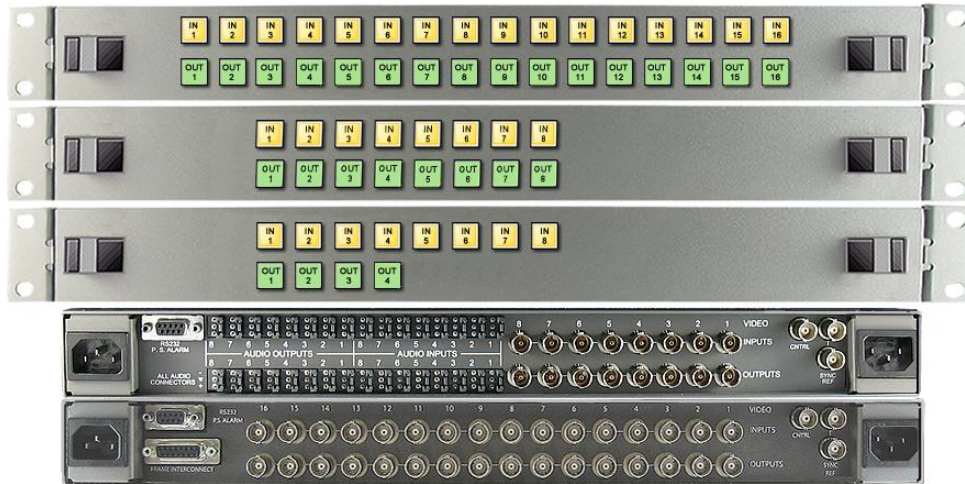




**RJM & Associates, LLC**  
Broadcast Solutions

## Data Sheet

### 8x4, 8x8 and 16x16 High Definition Routing Switchers



*The control panels shown with routers are for illustration purposes only and are priced separately.*

#### Key Features

- 8x4, 8x8, and 16x16 models available
- Cable eq on all inputs
- Reclocking on all outputs
- Meets SMPTE 259M and 292M specs, and is ASI-DVB compliant
- Flexible control system
- Analog audio optional
- Compact, rugged 1 RU package

The RJM & Associates INNOVATION Series HD routers feature world-class performance and reliability at an economical price. Three different models are available, each of which is housed in a compact, rugged 1RU chassis.

Unlike many other economically-priced compact routers, all active circuitry is contained on plug-in printed circuit boards that are both front loading and hot-swappable. This simplifies troubleshooting and dramatically reduces repair time. It also makes it possible to easily add options like analog audio or a redundant power supply to a unit that has already been installed.

INNOVATION Series HD routers are compatible with all standard SD and HD data rates. Performance meets or exceeds all specifications set forth in SMPTE 259M and 292M, and all routers are DVB-ASI compliant. All models feature automatic input cable equalization and reclockers on all outputs.

These routers may be controlled locally using a control panel that attaches to the front of the frame or remotely, using a control panel that is connected to the frame with a single coax cable. An RS-232 serial port is also provided to allow the router to be driven by an automation system or other external controller.



## High Definition Routing Switchers

Performance Specifications	
Data Rates:	270Mbps, 360Mbps, 540Mbps, 1.4835Gbps
Data types:	SMPTE-259M, SMPTE-292M, 344M, DVB-ASI
Input cable equalization:	Automatic up to 300M @ 270 Mbps, 100M @ 1.485Gbps
Input return loss:	>20dB at 1.485Gbps
Input/output level:	800mV +/- 10%
Output jitter:	< 25ps
Output return loss:	>15dB at 1.5Gbps
Input/output connectors:	True 75Ω BNCs
Frame size 8x4, 8x8, 16x16:	1RU

Electrical / Physical /Environmental	
<b>Electrical:</b>	
Input power:	Auto ranging 90 to 240VAC
Frequency:	47 to 63 Hz.
Consumption:	8x4, 8x8, 16x16 50VA
Compliance:	UL listed, CE, FCC-Part 15 class B

<b>Physical:</b>	
Dimensions:	8x4, 8x8, and 16x16 housed in 1RU frames
Weight:	8x4, 8x8, 16x16 - ~14 lbs. (6.5 kg)
	CP Cradle w/panel - 6 lbs. (2.7 kg)

<b>Environmental:</b>	
Operating temperature:	0 to 40° centigrade.
Humidity:	90% non-condensing.

Analog Audio Specifications	
<b>Audio inputs:</b>	
Audio inputs:	8 dual (stereo) channels
Connector type:	Removable three pin Weco connector
Impedance:	20kΩ
Signal Level:	+26dBu, maximum
CMRR:	60dB to 1kHz
<b>Audio outputs:</b>	
Number:	One dual (stereo) per bus on 8x4 and 8x8
Signal type:	Balanced
Connector type:	Removable three pin Weco connector
Impedance:	<30Ω
Level:	+26dBu, maximum
<b>Performance:</b>	
Freq response:	±0.1dB to 20kHz, ref 1kHz
Crosstalk:	90dB @ 10kHz, worst case
DC offset:	<50mV
SNR:	<100dB, 20Hz to 20kHz
IM/THD:	< 0.02%

**Your local RJM & Associates Distributor:**