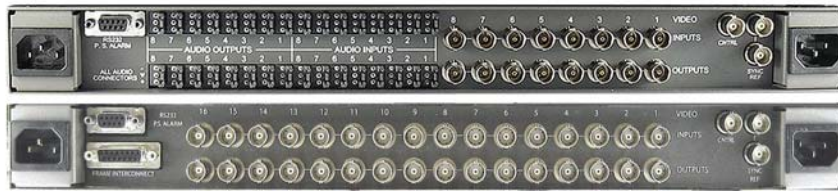
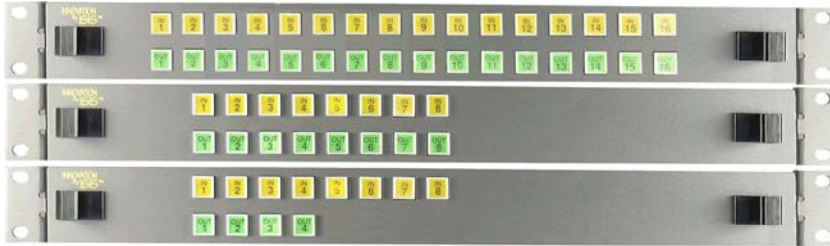


INNOVATION By ISIS

High Definition Routing Switchers



Introducing HD to the INNOVATION family of routing switchers. The additions encompass 8x4, 8x8, and 16x16 routing switchers, which operate within the prescribed SMPTE performance requirements. The HD/SD-SDI switchers are fully compatible with other switchers in the INNOVATION range. Analog or digital (AES/EBU) audio levels may be added to the base switchers as needed.

In keeping with the ISIS Group design philosophy, all of the boards are front loading and hot-swappable. The frames include a slot for a redundant power supply and both power supplies are front loading and hot-swappable.

These new switchers are based on the rugged design concepts of the existing INNOVATION routing switchers and the Ethernet control architecture supports up to 17 control panels via a single coax line. The control system includes as standard an RS232 serial control port to allow interface to external controllers specific to the needs of a particular installation.

FEATURES:

- **8x4, 8x8, and 16 x 16**
- **Conforms to all prescribed SMPTE HD/SD-SDI standards**
- **Fully equalized inputs**
- **All outputs re-clocked**
- **Flexible control system**
- **Rugged construction**
- **Analog or digital audio levels available for increased flexibility**

We take your success personally

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Performance Specifications

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

Electrical / Physical / Environmental

Electrical:

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

Physical:

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)

Environmental:

Operating temperature:	0 to 40° centigrade.
Humidity:	90% non-condensing.

Analog Audio Specifications

Audio inputs:

Audio inputs:	8 or 16 dual (stereo) channels
Connector type:	Removable three pin Weco connector
Impedance:	20kΩ (600Ω input versions available)
Signal Level:	+26dBu, maximum
CMRR:	60dB to 1kHz

Audio outputs:

Number:	One dual (stereo) per bus on 8x4, 8x8, and 16x16
Signal type:	Balanced
Connector type:	Removable three pin Weco
Impedance:	<30Ω (600Ω version available)
Level:	+26dBu, maximum

Performance:

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%

AES/EBU Audio Specifications

AES/EBU inputs:

Number:	8 or 16
Connector type:	Removable three pin Weco
Impedance:	110Ω balanced, AC coupled
CMR:	±25V
Level:	0.5 to 10V p-p

AES/EBU outputs:

Number:	1 per bus
Connector type:	Removable three pin Weco
Impedance:	110Ω balanced
Level:	4V p-p
Jitter:	< ±0.5ns p-p (+input jitter)

Note: 75Ω AES/EBU switchers are available

Your local ISIS Group Distributor: