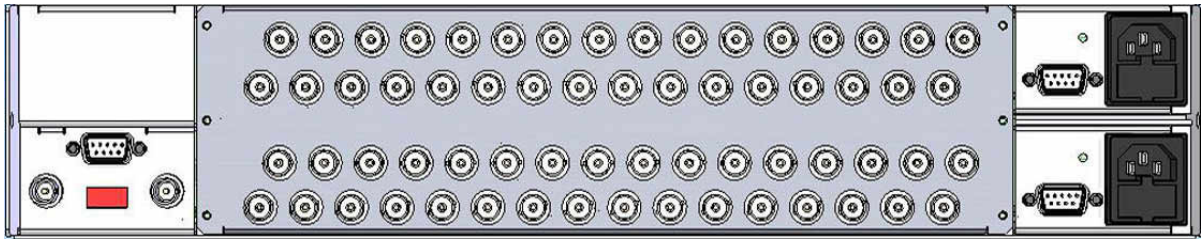
DAGGER SERIES 32X32 HD DIGITAL VIDEO MATRIX SYSTEMS

The ideal combination of power and convenience- Sigma Dagger Series 32 X 32 HD Digital Video Matrix Router Systems provide the most useful combination of HD/SD (auto-sensing) modules with other digital audio and video modules in a single frame. All systems include a control panel that provides status and control information for each output channel.

Whether the need is for a switcher capable of routing simultaneous streams of HD and SD or AES digital audio with your video, Sigma Dagger Series HD Video Matrix Systems are the right route to your destination.

FEATURES

- Highest quality at an economic price
- 32x32 SDI or HD (auto-sensing) in 2RU complete
- Automatic input equalization and reclocking of all outputs
- Controlled via local control panel or via RS-232/422 port on System Controller
- Operates as a stand-alone router or as part of any existing Sigma routing system
- Can be configured as HD, HD/SDI, or combined with AES level (optional)
- Optional redundant power supply
- Optional remote panel



Prices and specifications are subject to change without notice

SPECIFICATIONS

INPUTS (HD/SDI)

Quantity/Connector	32, 75 ohms BNC, terminated
Signal Type	SMPTE 259M, 344M, & 292M formats
Frequency	Up to 1.485 Gb/s
Normal Input Level	800 mVp-p +/-10%
DC Offset	0 +/-0.5V
Return Loss	> -20 dB (5 MHz to 540 MHz) > -18 dB (540 MHz to 1.485 GHz)
Equalization	Auto typ. max. equalized length of Belden 1694A cable: 270Mb/s - 350m (1150 ft.) 1.485Gb/s - 140m (450 ft.)

OUTPUTS (HD/SDI)

Quantity/Connector	32, 75 ohms BNC, terminated
Signal Type	SMPTE 259M, 344M, 292M formats
Reclocking	Automatic
Return Loss	> -20 dB (5 MHz to 540 MHz) -18 dB (540 MHz to 1.485 GHz)
Output Amplitude	800 mVp-p +/-10%
Rise/Fall Time	270 Mb/s 400 - 1500 ps 1.485 Gb/s <270 ps
Overshoot	< 10% of amplitude

MECHANICAL

Operating Temperature	32° F - 122° F (0° C - 50° C)

SYSTEM CONTROL INTERFACE

Data Transmission System	RS-232 & RS-422
Serial Port Baud Rate	Up to 38,400 baud
Control Levels	4, (follow mode w/ HSY16S control)
Communication Line	Coaxial, up to 2000 feet
External Sync Reference	Composite Sync or blackburst
Control Panel Addresses	Up to 16 on Comm. Line
Connectors	BNC for Comm. Line 9 Pin "D" for serial port

INPUTS (AES) (optional)

Quantity/Connector	32, differential, terminated, 1V p-p max. Transformer Coupled, AES-3id 1995
Input connectors	BNC
Input impedance	75 ohms (+/-20%) from 0.1 MHz to 6 MHz
Common mode reject.	7V peak from DC to 20 kHz
Cable length	1000 ft. of Belden 1800A Cable maximum

OUTPUTS (AES) (optional)

Quantity/Connector	32, differential, 1V p-p max. Transformer Coupled, AES-3id 1995
Connectors	BNC
Impedance	75 ohms (+/-20%) from 0.1 MHz to 6 MHz
Output Isolation	50 dB min.
Rise and Fall time	5ns < tr < 30ns, 10% to 90% (rise time) 5ns < tf < 30ns, 10% to 90% (fall time)
Serial Data Jitter	+/-20ns max.
Input cable length	1000 ft. of Belden 1800A Cable maximum
Common mode noise	30 dB min. below signal from DC to 6 MHz
Electrical length	70ns typical

SYSTEM CONFIGURATIONS

HDVS3232-1: 32x32 HD SDI router
HDVS3232-2: 64x32 HD SDI router
HDVS3232-3: 96x32 HD SDI router
HDVS3232-4: 128x32 HD SDI router
Optional AES audio
Optional remote control panel
Optional redundant power supply

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