

NEW HD ADX SYSTEMS**FEATURES**

- Supports HDSDI and SDI
- Can be configured from 16x16 to 64x64
- Can be custom configured to suit your needs
- Designed to meet the highest reliability standard
- Current digital ADX systems can be upgraded to HD in groups of 16 inputs and outputs



Sigma's ADX series provides practical and economic solutions for routing applications. Engineered for expansion, systems can be configured from 16x16 to 64x64, for any combination of HD digital video and audio. Our standard Sigma control interfaces can support up to 8 switching levels.

An ADX system integrates directly with other Sigma routing systems and control options. Adding a level of ADX routing to your existing non-Sigma routing system is also easily achieved via our new control protocol converter, the CCM2100.

In conjunction with our SigMatriX software, the ADX can be programmed to initiate system salvo switching. This is especially useful in the event of EAS activation. The salvo is user determined and the EAS interface is controlled via contact closure.

Prices and specifications are subject to change without notice

The specifications listed below apply to standard features and signal options for HD ADX systems. ADX systems can be configured with any combination of available signal types. For more information on configuring a system that suits your needs, please contact our customer service center - 717 569 2926.

SPECIFICATIONS**INPUTS (HD/SDI)**

Quantity/Connector	16-64 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	16-64, 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

SYSTEM CONTROL INTERFACE

Data Trans. System	RS-232 and RS-422/485
Serial Port Baud Rate	9,600; 19,200; 38,400; 57,600 baud
Control Levels	Eight
Communication Line	Coaxial, up to 2000 feet
Control Panels	Up to 64 on Comm. Line
Number of Salvos	Four to ten, depending on Master Control Panel
Protocol	Simple ASCII, supports Xon/Xoff
External Sync Ref.	Composite Sync or Blackburst, auto detect
Connectors	BNC for comm. line and ext. sync. 9 pin "D" for serial port 25 pin "D" for Control Bus to slave frames

INPUTS (AES) (optional)

Quantity/Connector	16-64, 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	16-64, 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 max
Common mode noise	30 dB min. below signal from DC to 6 MHz
Electrical length	70ns typical

ANALOG AUDIO

Input/Impedance	30 K ohms, balanced
Bandwidth	150 kHz
Input Level	+24 dBu, maximum
Output Level	+24 dBu, maximum into 600
Frequency Response	+/-0.1 dB 10 Hz to 30 kHz any level; +/-0.25 dB to 100 kHz
Hum and Noise	<-85 dBu w/ 22 kHz low pass
THD	<0.015%, max. at +24 dBu, 0.002% typical
Crosstalk	90 dB 10 Hz to 20 kHz all inputs driven, 110 dB typ.
Gain	Adjusted to unity +/-0.2 dB, 600 ohms termination
Connectors	3 pin detachable terminals

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