



AES Digital Audio Matrix Switchers

16x16 to 16x64

The digital audio standard frequently called AES/EBU, officially known as AES3, is used for carrying digital audio signals between various devices. It was developed by the Audio Engineering Society (AES) and the European Broadcasting Union (EBU) in 1985. The AES-3id standard defines a 75-ohm BNC electrical variant of AES3. This can use the same cabling, patching and infrastructure as analog or digital video, and is thus common in the broadcast industry. The AES-3id standard is also sometimes referred to as SMPTE 276M.

Matrix Switch Corporation offers both formats of AES3. The products listed on this page are the AES-3id 75-ohm BNC type. If your requirements are for 110 ohm balanced AES3 digital audio, please contact Matrix Switch Corporation to find out if the size and model you require are available.

The Matrix Switch Corporation AES-3id 75-ohm BNC switchers listed here are based on an all digital signal path that produces a constant output amplitude with reduced noise.

The Matrix Switch Corporation AES digital audio switchers listed here are normally linked to the control system which is located in a separate video switcher, and it may be operated as Audio Follow Video or Audio Breakaway. For standalone operation of any of these Matrix Switch Corporation AES digital audio switchers a controller module can be added. Please contact Piper Digital for additional ordering and pricing information for standalone digital audio switchers.

Available Models

Model #	Inputs	Outputs	Size	PSU	Power Req.	Price
MSCDE-1616	16	16	1RU	Int	15VA	\$2,200
MSCDE-1664	16	64	2RU	Int	30VA	\$5,500
MSCDE-3216	32	16	2RU	Int	20VA	\$3,800
MSCDE-3232	32	32	2RU	Int	25VA	\$5,000
MSCDE-3248	32	48	2RU	Int	30VA	\$5,500
MSCDE-4832	48	32	2RU	Int	30VA	\$5,500
MSCDE-6416	64	16	2RU	Int	30VA	\$5,500

Note: All of these systems must be combined with an MSC video switcher which contains the required control system. Contact us if you require standalone audio.

Specifications

Data rate	10KHz through 6MHz including sample rates from 32kHz, 44.1kHz, 48kHz, 96kHz
DC on input	0 (AC Coupling)
Input signal level	0.5V through 5V P-P
Input impedance	75 Ω
Input return loss	25dB, 0.1 - 6.0MHz
Connectors	BNC per IEC 61169-8 Annex A
Audio outputs	DC isolation - AC coupled
Signal level	1.0V p-p ±5%
Return Loss	25dB, 0.1 - 6.0MHz
Jitter	Conforms to ANSI S4.40 - 1992

