

**Over five decades of designing high reliability, high performance matrix switching systems.**  
Systems for critical broadcast, post-production, multi-media, presentation,  
command & control, government and private enterprise applications.

Matrix Switch Corporation's emphasis is on small to medium size HD-SDI and wide-bandwidth DB15 VGA Switchers. Their compact HD switchers are lightweight, compact, consume less than 15VA and have dual or quad outputs. Each is available with an optional local panel as well as optional AES 75 ohm S/DIF compatible digital audio in the same enclosure. Matrix Switch Corporation mid size HD-SDI switchers range from 16x16 through 32x32. Matrix Switch Corporation VGA switchers employ DB15 I/O connectors thus saving space and simplifying installation. Matrix Switch Corporation VGA switchers are available in 16x16, 32x8, 32x32, 16x64, 64x16, 32x48 and 48x32 configurations. All Matrix Switch Corporation switchers include RS232, Ethernet and built in web page control.

### **Compact - High Performance HD-SDI Digital Video Switchers**

These compact switchers are an ideal solution for any HD/SD-SDI video equipment and will easily handle any SD or HD format from 19 Mbps to 1.485 Gbps, as well as DVB-ASI signals. Each input has automatic cable loss equalization and each output auto detects standard SMPTE data rates. Standard SMPTE data rates are re-clocked.

### **VGA / RGBHV Matrix Switchers 16x16 through 16x256 / 256x16**

Matrix Switch Corporation VGA RGBHV matrix switchers have wide bandwidth that meets or exceeds the bandwidth of most competing systems. The rugged mechanical design of our VGA switchers combined with the small size, makes them an ideal fit for the rigors of the staging and rental industry. Matrix Switch Corporation VGA RGBHV switchers employ a flexible and user friendly control system. In addition we offer a selection of remote control panels. These panels are TCP/IP Ethernet based, which give you the greatest flexibility in placement, quantity and how they can be networked.

### **AES Digital Audio Matrix Switchers 16x16 to 16x64**

Matrix Switch Corporation offers both formats of AES3. The Matrix Switch Corporation AES-3id 75-ohm BNC switchers 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 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 the Matrix Switch Corporation AES digital audio switchers a controller module can be added.

### **Analog Video Matrix Switchers 16x16 through 16x256 / 256x16**

Matrix Switch Corporation line of Analog Video Matrix Switchers represent the ultimate combination of performance, low price and compact size with a powerful control system. Each system has a minimum signal bandwidth of 50MHz. More than enough for any analog video installation. While achieving this extraordinary bandwidth Matrix Switch Corporation has been able to design these matrix switchers without compromising other critical performance and installation requirements. The use of premium quality components, extensive shielding and low noise linear on board power supply regulation has resulted in systems with extremely low crosstalk and low noise levels.

### **Analog Audio Matrix Switchers 16x16 through 16x256 / 256x16**

Matrix Switch Corporation's analog audio switchers are available in a variety of configurations with either unbalanced 3.5mm TRS Inputs and Outputs which are directly compatible with computer audio output connectors or balanced +24dBm and 120dB S/N on D25 connectors for the inputs and outputs. These analog audio matrix switchers offer excellent value, performance and compact size. When combined with a Matrix Switch Corporation HD/SDI, VGA or Analog Video routing switcher the power of the Matrix Switch Corporation carries over to the audio system offering AFV (Audio Follow) or Break Away (Video Only or Audio Only selections) via RS232, Ethernet, built-in web page or a variety of Matrix Switch Corporation remote control panels.

### **Control Panels XY and Single Bus**

Matrix Switch Corporation remote control panels operate over a standard 10BaseT Ethernet LAN. Matrix Switch Corporation offers these in variety of configurations as well as in your choice of two different types of pushbutton switches:

'E Type' Employ individually rear lit elastomeric switches with excellent tactile feel and high reliability gold contacts. These are our most popular and most cost effective type of button-per-source remote control panel.

'V Type' Panels use the same industry standard Veetronix re-legend-able switches found on the top of the line production switchers.

In addition to our lineup of pushbutton based panels Matrix Switch Corporation can provide a variety of other types of control panels, including keypad / display style and desktop configurations.

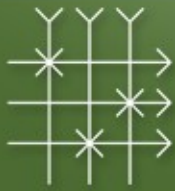
### **HD/SDI Distribution Amplifiers 1x4 or 1x16**

Matrix Switch Corporation HD / SDI distribution amplifiers combine exceptional performance with both value and compact size. All models include 143MBPS, 270MBPS / 1.484GBPS Auto Rate Detection with "Power OK", "Lock" and "HD" indicators. The compact size of these distribution amplifiers allows them to be located in spaces where rack space is limited.

**For more information or a demonstration visit [www.piperdigital.com](http://www.piperdigital.com)  
or call Piper Digital 310-379-8888**

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**Matrix  
Switch  
Corporation**

digital and analog connectivity solutions

## Compact - High Performance HD-SDI Digital Video Switchers

Model #	Inputs	Outputs	Size	PSU	Power Req.	Description
MSC-HD44L	4	4	1RU	Ext	12VA	With local control panel
MSC-HD44	4	4	1RU	Ext	10VA	Dual outputs
MSC-HD44E75L	4	4	1RU	Ext	14VA	W AES audio & Lcl Panel
MSC-HD44E75	4	4	1RU	Ext	12VA	With AES audio
MSC-HD81E75	8	1	1RU	Ext	10VA	With AES audio
MSC-HD81L	8	1	1RU	Ext	10VA	With local control panel
MSC-HD81	8	1	1RU	Ext	8VA	Quad outputs
MSC-HD81E75L	8	1	1RU	Ext	12VA	W AES audio & Lcl Panel
MSC-HD84	8	4	1RU	Ext	14VA	Dual outputs
MSC-HD84E75L	8	4	1RU	Ext	18VA	W AES audio & Lcl Panel
MSC-HD84E75	8	4	1RU	Ext	16VA	With AES audio
MSC-HD84L	8	4	1RU	Ext	16VA	With local control panel
MSC-HD88	8	8	1RU	Ext	18VA	---
MSC-HD88L	8	8	1RU	Ext	20VA	With local control panel
MSC-HD0816	8	16	1RU	Int	20VA	---
MSC-HD121	12	1	1RU	Ext	12VA	Quad outputs
MSC-HD121L	12	1	1RU	Ext	13VA	With local control panel
MSC-HD161L	16	1	1RU	Ext	17VA	With local control panel
MSC-HD161	16	1	1RU	Ext	15VA	Quad outputs
MSC-HD161E75L	16	1	1RU	Ext	22VA	W AES Audio & Lcl Panel
MSC-HD161E75	16	1	1RU	Ext	20VA	With AES audio
MSC-HD1608	16	8	1RU	Int	20VA	---
MSC-HD1616	16	16	1RU	Int	30VA	---
MSC-HD2408	24	8	1RU	Int	30VA	---
MSC-HD2416	24	16	1RU	Int	30VA	---
MSC-HD3208	32	8	1RU	Int	35VA	---
MSC-HD3216	32	16	2RU	Int	40VA	---
MSC-HD3232	32	32	2RU	Int	70VA	---



## VGA / RGBHV Matrix Switchers 16x16 through 16x256 / 256x16

Model #	Inputs	Outputs	Size	PSU	Power Req.
MSC-5-1616	16	16	2RU	Int	30VA
MSC-5-1664	16	64	4RU	Int	70VA
MSC-5-16112	16	112	8RU	Int	140VA
MSC-5-16160	16	160	12RU	Int	210VA
MSC-5-16208	16	208	16RU	Int	280VA
MSC-5-16256	16	256	20RU	Int	350VA
MSC-5-3208	32	8	2RU	Int	30VA
MSC-5-3232	32	32	4RU	Int	70VA
MSC-5-3248	32	48	4RU	Int	70VA
MSC-5-4832	48	32	4RU	Int	70VA
MSC-5-6416	64	16	4RU	Int	70VA
MSC-5-11216	112	16	8RU	Int	140VA
MSC-5-16016	160	16	12RU	Int	210VA
MSC-5-20816	208	16	16RU	Int	280VA
MSC-5-25616	256	16	20RU	Int	350VA

## Analog Audio Matrix Switchers 16x16 through 16x256 / 256x16

Model #	Inputs	Outputs	Size	PSU	Power Req.	Description
MSCAB-1616	16	16	1RU	Int	20VA	Balanced Stereo Audio
MSCAB-1664	16	64	2RU	Int	30VA	Balanced Stereo Audio
MSCAU-1664	16	64	2RU	Int	20VA	Un-balanced Stereo Audio
MSCAB-3216	32	16	1RU	Int	20VA	Balanced Stereo Audio
MSCAB-3232	32	32	2RU	Int	25VA	Balanced Stereo Audio
MSCAU-3232	32	32	2RU	Int	20VA	Un-balanced Stereo Audio
MSCAU-3248	32	48	2RU	Int	20VA	Un-balanced Stereo Audio
MSCAB-3248	32	48	2RU	Int	30VA	Balanced Stereo Audio
MSCAB-4832	48	32	2RU	Int	30VA	Balanced Stereo Audio
MSCAU-4832	48	32	2RU	Int	20VA	Un-balanced Stereo Audio
MSCAB-6416	64	16	2RU	Int	30VA	Balanced Stereo Audio
MSCAU-6416	64	16	2RU	Int	20VA	Un-balanced Stereo Audio

## Analog Video Matrix Switchers 16x16 through 16x256 / 256x16

Model #	Inputs	Outputs	Size	Description
MSCV-1616	16	16	1RU	50 MHz Analog Video Switcher
MSCV-1664	16	64	2RU	50 MHz Analog Video Switcher
MSCVAA-3216	32	16	2RU	50 MHz Analog Video Switcher*
MSCV-3216	32	16	2RU	50 MHz Analog Video Switcher
MSCV-3232	32	32	2RU	50 MHz Analog Video Switcher
MSCV-3248	32	48	2RU	50 MHz Analog Video Switcher
MSCV-4832	48	32	2RU	50 MHz Analog Video Switcher
MSCV-6416	64	16	2RU	50 MHz Analog Video Switcher

\* with balanced audio in the same frame

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## AES Digital Audio Matrix Switchers 16x16 to 16x64

Model #	Inputs	Outputs	Size	PSU	Power Req.
MSCDE-1616	16	16	1RU	Int	15VA
MSCDE-1664	16	64	2RU	Int	30VA
MSCDE-3216	32	16	2RU	Int	20VA
MSCDE-3232	32	32	2RU	Int	25VA
MSCDE-3248	32	48	2RU	Int	30VA
MSCDE-4832	48	32	2RU	Int	30VA
MSCDE-6416	64	16	2RU	Int	30VA

## Control Panels XY and Single Bus

Model #	Inputs	Outputs	Size	PSU	Power Req.
MSC-CP4x4E	4	4	1RU	Ext	3VA
MSC-CP8x1E	8	1	1RU	Ext	3VA
MSC-CP8x4E	8	4	1RU	Ext	3VA
MSC-CP8x8E	8	8	1RU	Ext	3VA
MSC-CP12x1E	12	1	1RU	Ext	3VA
MSC-CP16x1E	16	1	1RU	Ext	3VA
MSC-CP16x16	16	16	1RU	Ext	3VA
MSC-CP32x1	32	1	1RU	Ext	3VA
MSC-CP32x32	32	32	2RU	Ext	3VA
MSC-CP64x1	64	1	2RU	Ext	3VA



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