

Matrix Switch Corporation Product Brief

4RU Modular 3G/HD/SD-SDI Video Router



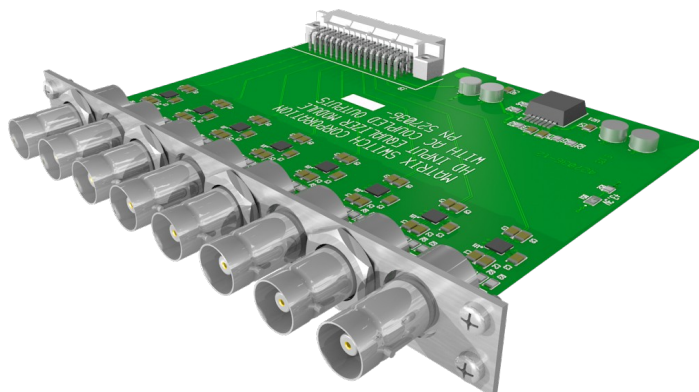
Matrix Switch Corporation Modular 4RU SDI Video Routing Switchers offer field expandable matrix size configurations in input or output increments of 8 up to 64x64. With the possibility of a non symmetrical matrix, there are a total of 64 different sizes to choose from. These systems are 4RU in height and less than 6 inches deep, allowing for installation in space limited situations.

Forced air cooling ensures low internal temperatures for long service life in the most harsh environments and a redundant power supply is also included for added reliability.

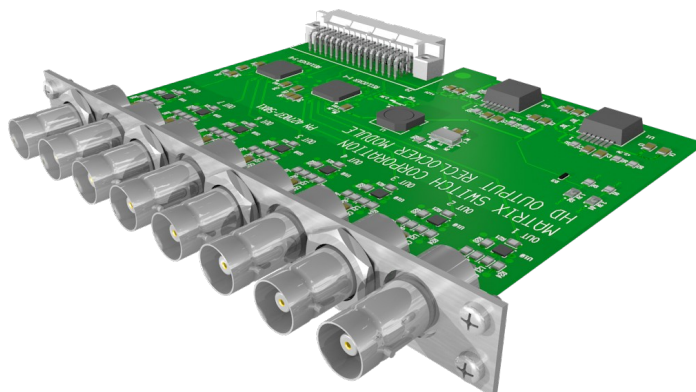
Matrix Switch Corporation routers offer flexible and user friendly control, including a built in Javascript enabled web page interface and simple yet powerful text based control protocol which can be sent via TCP/IP, RS-232 Serial Port or the web page interface.

Ordering options

These modular systems can be factory assembled and configured for a particular size. For convenience we offer model numbers for complete systems of various sizes as well as part numbers for the individual components (factory assembly available for both options). Consult the tables below for these two ordering methods.



MSC-XD8RB - 8 Input SDI Video Equalizer Card



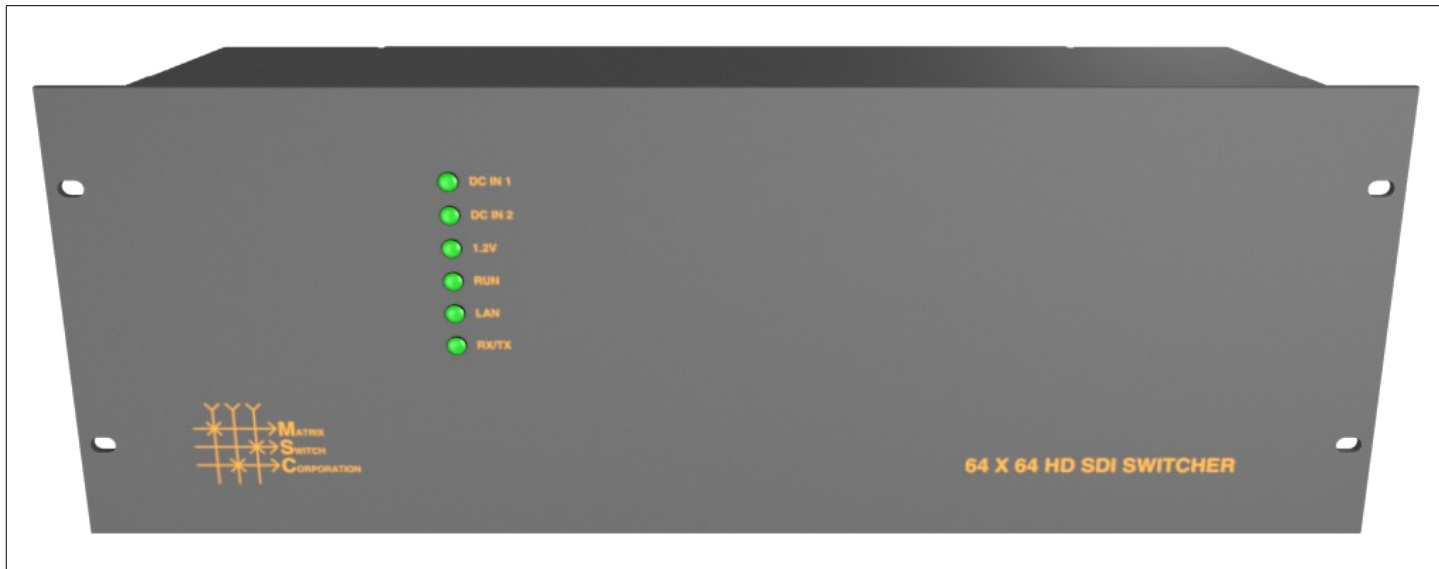
MSC-XD8TB - 8 Output SDI Video Reclocker Card

Ordering Option 1 – Individual Components

Model Number	Description
MSC-HDX4000	Frame for 4RU Modular SDI Routing Switcher including control module, dual power supplies, dual fans and crosspoint board.
MSC-XD8TB	3G/HD/SD-SDI 8 channel input equalizer module for Matrix Switch Corporation modular I/O systems.
MSC-XD8RB	3G/HD/SD-SDI 8 channel output re-clocking module for Matrix Switch Corporation modular I/O systems.

Ordering Option 2 – Model Numbers by Matrix Size (prepend "MSC-" to model numbers)

Inputs	Outputs							
	8	16	24	32	40	48	56	64
8	4HDX0808	4HDX0816	4HDX0824	4HDX0832	4HDX0840	4HDX0848	4HDX0856	4HDX0864
16	4HDX1608	4HDX1616	4HDX1624	4HDX1632	4HDX1640	4HDX1648	4HDX1656	4HDX1664
24	4HDX2408	4HDX2416	4HDX2424	4HDX2432	4HDX2440	4HDX2448	4HDX2456	4HDX2464
32	4HDX3208	4HDX3216	4HDX3224	4HDX3232	4HDX3240	4HDX3248	4HDX3256	4HDX3264
40	4HDX4008	4HDX4016	4HDX4024	4HDX4032	4HDX4040	4HDX4048	4HDX4056	4HDX4064
48	4HDX4808	4HDX4816	4HDX4824	4HDX4832	4HDX4840	4HDX4848	4HDX4856	4HDX4864
56	4HDX5608	4HDX5616	4HDX5624	4HDX5632	4HDX5640	4HDX5648	4HDX5656	4HDX5664
64	4HDX6408	4HDX6416	4HDX6424	4HDX6432	4HDX6440	4HDX6448	4HDX6456	4HDX6464



Feature Highlights

- Re-clocking of standard SD, HD and 3G SDI data rates
- Auto bypasses non-standard SDI rates from 20Mbit/s to 3Gbit/s
- Video mute on every output
- Passes SDI embedded audio and ancillary data
- Interactive web page interface ([demo](#))
- Vertical interval switching
- Store and recall up to 10 presets (complete or partial matrix state recall)
- Compact design - 4RU less than 6 inches deep
- Software updates via Ethernet port
- Backed by a full 2 year manufacturer parts and labor warranty
- Redundant power supply included
- Can be used with one or more Matrix Switch Corporation TCP/IP [Remote Panels](#)
- Flexible control using the [MASCOT text based protocol](#) via TCP/IP, serial port or web page interface
- Sierra Video Systems protocol support
- Ask us about other 3rd party control protocol support



Specifications		SDI Video	
Size	19"W x 7"H x 6"D	Connector type	BNC
Rack Size	4RU	Data Types	SMPTE 259/292/424
Weight	20 lbs	Data Rates	19 Mbit/s through 3.0 Gbit/s
Power	12 VDC 10A	Re-clocking Data Rates	270 Mbit/s, 1.485 Gbit/s, 2.97 Gbit/s
Storage Temp	-10 Through +50 Deg C	Input/Output Return Loss	> 15dB @ HD, > 12dB @ 3G
Operating Temp	0 Through +40 Deg C	Input Level	800 mV P-P +/- 20%
Humidity	0 Through 90% Non-Condensing	Input Impedance	75 Ohms +/- 1%
Warranty	2 Years Parts & Labor	Cable equalization (1694A coax)	350m @ SD, 175m @ HD, 100m @ 3G
Control Specifications		Output Level	800 mV P-P +/- 5%
Serial RS232	Configurable Baud Rate, 8 data bits, no parity, 1 stop bit	Output Impedance	75 Ohms +/- 1%
Ethernet	100 BaseT TCP/IP	Output Jitter	< 0.2 UI
Panel control	Local and remote button control panel options	Reference Signal	
		Connector Type	Analog BNC with pass-through
		Format	NTSC, PAL and Tri-level sync