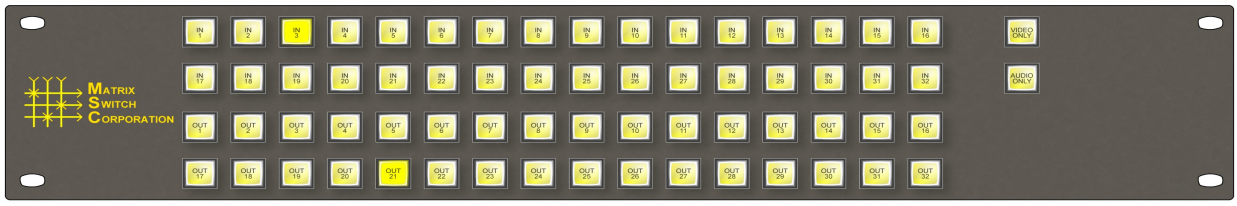
Matrix Switch Corporation

digital and analog connectivity solutions

Wide bandwidth VGA RGBHV video switchers



16x16 through 16x256/256x16
Video Routing Switcher with Digital and Analog Audio Options

Key features:

* HD15 I/O connectors - save space and eliminate breakout cables
* Local and/or remote control panels
* Vertical interval clean switch
* RS232 control via simple ASCII based protocol
* TCP/IP Ethernet including a built in web page and SNMP control
* Complies with all relevant FCC, U/L and CE requirements
* Backed by a full 2 year parts and labor warranty

Applications:

* Command and control centers
* Homeland security monitoring
* Emergency response centers
* Large multiscreen venues
* Use with Matrix Switch control panels and/or any 3rd party control system (AMX, Crestron, Calypso, Leightronix, etc.)

These VGA RGBHV matrix switchers have wide bandwidth combined with ultra-low crosstalk technology, producing artifact-free images at any image resolution including QXGA.

Each switcher size: 16x16, 32x8, 32x32, 32x48, 48x32, 64x16 and 16x64 is available with a variety of audio and control panel options. These include no audio (video only), AES3 S/PDIF 75 ohm digital audio on BNC I/O, AES3 Balanced 110 ohm digital audio and unbalanced or balanced stereo analog audio.

Matrix Switch Corporation
14070 Cartwright Way, Nevada City, CA 95959
Phone 530-477-9122 EMAIL: info@matrix-switch.tv

SPECIFICATIONS

VIDEO:

RGB input impedance	75 ohms +/- 1%
RGB input return loss	> -35 dB at 5MHz
RGB nominal input level	1V P-P
RGB maximum input level	1.8V P-P
RGB I/O coupling	DC
RGB output impedance	75 ohms +/- 1%
RGB output return loss	> -35 dB at 5MHz
RGB nominal output level	1V P-P
RGB gain uniformity	< +/-0.5%
RGB frequency response	+/-0.1dB to 10MHz +/-3dB to 100 to 400MHz depending on signal level
RGB crosstalk	< -60dB at 5MHz < -40dB at 50MHz < - 25dB at 100MHz
HV input impedance	75 ohms ±1%
HV input return loss	> -35dB at 5MHz
HV nominal input level	2V P-P
HV maximum input level	6V P-P
HV I/O coupling	DC
HV output impedance	75 ohms +/-1%
HV output return loss	> -35dB at 5MHz
HV nominal output level	2V P-P
HV maximum output level	4V P-P
HV gain uniformity	< +/-0.5%
HV frequency response	+/- 0.1dB to 10MHz +/- 3dB to 50MHz
HV crosstalk	< -50dB at 5MHz < -30dB at 20MHz

AES DIGITAL AUDIO INPUTS:

Signal Type:	75 Ohm Unbalanced or 110 Ohm Balanced
Connector Type:	BNC or multi-pin - 3 pin breakout adapters available
Level:	100mV to 10 V p-p
CMR:	>25 V

ANALOG AUDIO INPUTS:

Signal Type:	Balanced
Connector Type:	D25F with optional breakout adapters
Impedance:	> 30K Ohm
Level:	+8 dBm nominal +24 DBm maximum
CMRR:	> 70dB

AES DIGITAL AUDIO OUTPUTS:

Signal Type:	75 Ohm Unbalanced or 110 Ohm Balanced
Connector Type:	BNC or multi-pin - 3 pin breakout adapters available
Level:	7 V p-p
Jitter:	<0.25 UI

ANALOG AUDIO OUTPUTS:

Signal Type:	Balanced
Connector Type:	D25F with optional breakout adapters
Impedance:	< 30 Ohms
Level:	+8 dBm nominal +24 DBm maximum
Frequency response:	10 Hz - 50 KHz +/- 0.1 dB
S/N:	> 110 dB 20 Hz to 20 Khz

ENVIRONMENTAL:

Temperature:	0 C to 50 C ambient
Humidity:	10% - 100% non-condensing
Power consumption	7 VA typical
AC Voltage:	90-240VAC VAC 50 – 60Hz

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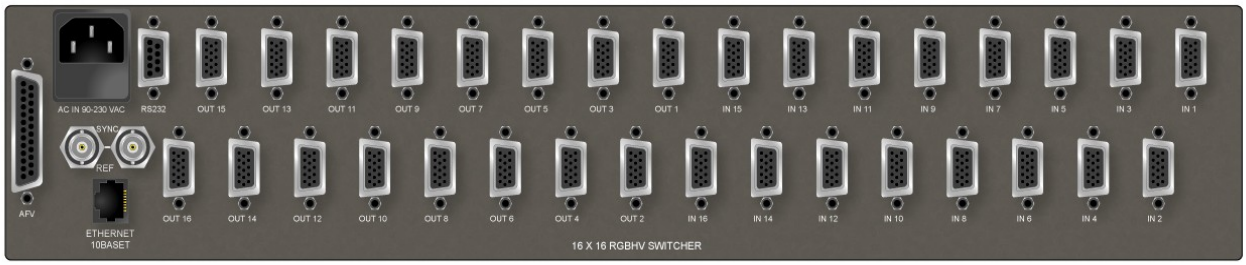

Available Models

MSC5-1616	VGA 16X16
MSC5-1664	VGA 16X64
MSC5-16112	VGA 16X112
MSC5-16160	VGA 16X160
MSC5-16208	VGA 16X208
MSC5-16256	VGA 16X256
MSC5-3208	VGA 16X208
MSC5-3232	VGA 32x32
MSC5-3248	VGA 32x48
MSC5-4832	VGA 48x32
MSC5-6416	VGA 64x16
MSC5-11216	VGA 112x16
MSC5-16016	VGA 160x16
MSC5-20816	VGA 208x16
MSC5-25616	VGA 256x16

Distributor:

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Specifications subject to change without notice