

**RA MTX series RGBHV / Stereo Audio Matrix Switcher**



The RA MTX series Matrix Switcher from COMM-TEC are available in the following fixed I/O configurations 8 x 4, 8 x 8, 16 x 8 and 16 x 16.

The RA MTX series Matrix Switcher is a high-performance pro-AV matrix switcher that is designed for cross switching multiple RGBHV computer video and balanced/unbalanced Stereo Audio inputs to multiple outputs.

The signal levels can be switched in Audio-follows-Video or Audio Break-away mode.

MTX series switchers are mostly used in presentation rooms, boardrooms, meeting rooms, big screen display engineering, education, command control centers, and many other installations.

The MTX series Matrix Switcher can be controlled through the front control panel, by infrared remote controller (included), and via the RS-232 communication port.

With the buttons and a two-line LCD-Display on the front control panel all important functions can be carried out and information can be shown: Selection of signal level, Routing of signals, save and recall of max. 10 presets, status requests and hardware/ firmware information.

With the Infrared Remote Controller the same functions can be executed as with the front panel.

With the RS-232 port the MTX matrix switchers can be integrated into AV systems and controlled via media control systems (e.g. AMX/Crestron) or by a computer with an RS-232 interface and the included software (for OS Windows). With this software it is possible to execute more functions than the front panel allows, e.g. create a password for the front panel lock.

All video signal connectors are BNC female, the audio connectors are 5pin screw terminals.

**Features**

- Configurations 8 x 4, 8 x 8, 16 x 8, 16 x 16
- Audio-follows-Video or Break-Away switching
- Bandwidth 400 MHz
- Control via RS-232, Front Panel or Infrared Remote
- Excellent price/performance ratio

**Accessories, included**

Infrared Remote, power cord, RS-232 cable, Quick-Start Guide, CD-ROM with Software and Manuals.

**Architectural Specifications**

The Architectural Specification is available on the internet [www.comm-tec.de](http://www.comm-tec.de).

- Type:**
- MTX0804RA Matrix Switcher 8 x 4 RGBHV + Stereo Audio**
  - MTX0808RA Matrix Switcher 8 x 8 RGBHV + Stereo Audio**
  - MTX1608RA Matrix Switcher 16 x 8 RGBHV + Stereo Audio**
  - MTX1616RA Matrix Switcher 16 x 16 RGBHV + Stereo Audio**

**Manufacturer: COMM-TEC Signalmanagement**

Model	Signalconnectors	Video Inputs	Video Outputs	Audio Inputs	Audio Outputs	Unit Heights
MTX0804RA	Video BNC, Audio 5-pin screw term.	8	4	8	4	3ru
MTX0808RA	Video BNC, Audio 5-pin screw term.	8	8	8	8	3ru
MTX1608RA	Video BNC, Audio 5-pin screw term.	16	8	16	8	7ru
MTX1616RA	Video BNC, Audio 5-pin screw term.	16	16	16	16	7ru

## RA MTX series RGBHV / Stereo Audio Matrix Switcher



### Technical Specifications

<b>Type</b>	RA MTX series	
<b>Name</b>	MTX0804RA, MTX0808RA, MTX1608RA, MTX1616RA RGBHV / Stereo Audio Matrix Switcher	
<b>Avail. Configurations</b>	8 x 4, 8 x 8, 16 x 8, 16 x 16	
<b>Video</b>		
Bandwidth	400MHz (-3dB), fully loaded; 0 -10MHz @ ± 0.1dB; 0 -100MHz @ ± 0.6dB	
Cross talk sum	0.03 Deg.	
Differential phase error	0.1°, 0.1%	
Differential gain error	0.1%, 3.58-4.43MHz	
Switching speed	200 ns (Max)	
Signal type	RGBHV, RGBS, RGSB, RsGsBs, HDTV, Component Video, S-Video, Composite Video	
Connector input/output	BNC female	
<b>Input video</b>		
Signal strength	1V p-p Y Component Video, S-Video, Composite Video; 0.7V p-p RGB; 0.3V p-p R-Y & B-Y Component Video, S-Video	
<b>Input level min/max</b>	Analog signals: 0.5V ~ 2.0V p-p	
<b>Impedance</b>	75 Ω	
<b>Output video</b>		
Maximum/Minimum level	2.0V p-p	
<b>Impedance</b>	75 Ω	
<b>Max compensation in Dc offset</b>	±5mV	
<b>Gain</b>	1.03 dB	
<b>Sync signal Input/Output</b>	RGBHV, RGBS, RGSB, RsGsBs,	
Input level	0.5V- 5.0V p-p.; 4.0V p-p normal	
Output level	AGC-TTL: 5Vp-p, unterminated	
Input impedance	510 Ω / 75 Ω (selectable w/ DIP switches)	
Output impedance	75 Ω	
<b>Polarity</b>	Straight or subtractive according to input	
<b>Audio Signals</b>	Stereo, balanced /unbalanced	
I/O connector	5-pin captive screw terminal	
<b>Gain</b>	0dB	
<b>Frequency response</b>	20 Hz ~ 20 kHz	
<b>General harmonic distortion + noise</b>	0.03% @ 1 kHz (under rating voltage)	
<b>S/N</b>	>90dB	
<b>Segregation rate</b>	>80dB @ 1 kHz	
<b>CMRR</b>	>75dB @: 20 Hz ~ 20 kHz	
<b>Impedance</b>	Input: > 10 kΩ balanced /unbalanced	Output: 50 Ω (unbalanced), 100 Ω (balanced)
<b>Maximum input level</b>	+19.5dBu, (balanced /unbalanced)	
<b>Gain error</b>	±0.1dB	
<b>Max output level</b>	+19.5dBu, (balanced /unbalanced)	
<b>Operation/Control</b>	Front panel, Infrared-Remote control (included), RS-232 port	
<b>Serial interface</b>	RS-232, 9pin SubD female	
<b>Port Settings</b>	Baud rate: 9600, Data bit: 8, Stop bit: 1, Parity bit: None	
<b>Pin mapping</b>	2 = TX Transmit, 3 = RX Receive, 5 = GND Ground	
<b>Protocol</b>	ASCII	
<b>General</b>		
<b>Power input</b>	100-240 VAC (50/60 Hz), IEC connector	
<b>Temperature</b>	Storage/ Operating 5° to +40°C	
<b>Humidity</b>	Storage/ Operating between 10% and 90%, non-condensing	
<b>Dimensions (W x D x H)</b>	MTX0804CA + MTX0808CA: 19"x 11" x 5,25" (483 x 280 x 133 mm), 3ru / 4,5 kg	
<b>and Weight</b>	MTX1608CA + MTX1616CA: 19"x 11,8" x 10,37" (483 x 300 x 266 mm), 7ru / 10 kg	
<b>Enclosure type</b>	19" rackmountable, Metal enclosure, colour black	
<b>MTBF(Mean Time Between Failure)</b>	30,000 Hours	
<b>Warranty</b>	2 year, parts	