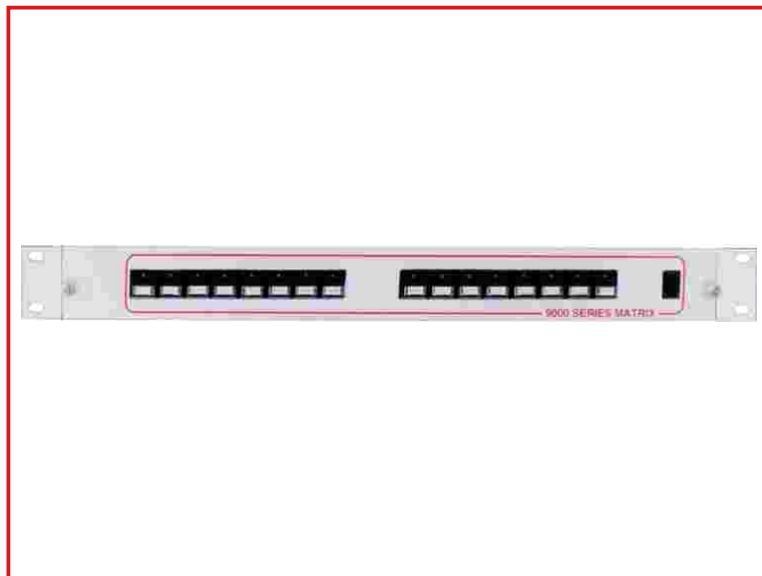


TTR 9000 Video and Audio Matrices

TTR

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BROADCAST ANALOGUE VIDEO AND AUDIO MATRICES

The TTR9000 Series Video and Audio Matrices provide a very flexible, compact and cost effective switching system, designed to broadcast specification. The system allows for a wide range of matrix sizes and a comprehensive range of control facilities to meet most requirements.

The system is based on two standard Eurocard module mothercards - a single width 8 x 2 card and a double width 16 x 8 card. Audio crosspoint, video crosspoint, or input buffer daughter cards are assembled on these two mothercards to build up matrix modules. Larger routing switchers are made up by combining these modules to increase the numbers of inputs and outputs as required. In this way, matrices from 8 x 1 up to 32 x 32 may be assembled.

The basic building block of the system is the CMOS crosspoint element, which with its low on resistance and high off resistance, provides excellent performance figures.

The flexibility of the TTR9000 series matrices make them ideal for custom built systems. Special units have been supplied which range from a simple 2 x 1, in a small ABS box, to a 64 x 64 RGBS and balanced audio matrix in a 6U rack unit.

For video matrices, inputs can be looping or terminating and outputs from each bus can be single or dual as required.

For audio matrices, inputs can be balanced or unbalanced as required.

For a simple system, e.g. an 8 x 1 audio and video matrix housed in a 1U rack unit, control can be provided by a button per crosspoint mounted on the rack unit front panel - an arrangement that would be ideal for an edit suite or dubbing theatre monitoring matrix. For larger systems, e.g. a 16 x 8 video plus two audio matrix, housed in a 6U rack unit, control could be via an X-Y selection system either mounted on the rack unit front panel or supplied on a separate remote panel - an X-Y selection system involves a pre-set and take operation with LED/LCD displays to show the destination selected.

Remote control of a matrix is also possible via RS232 or RS422, requiring the addition of an optional interface card. Control software can be supplied if required.

Features

- Broadcast Specification.
- Flexible and cost effective switching system.
- XY or button per crosspoint control
- Vertical interval switching.
- Serial control available (optional).

Specifications

VIDEO	<ul style="list-style-type: none">● Gain adjustable through unity Luma/Chroma ratio adjustable through unity● Diff Phase 0.2deg● Input return loss better than 34dB● Crosstalk at 4.43MHz (All unused inputs hostile) -55dB● Diff Gain 0.2%● Output return loss better than 34dB● K rating 0.5%K
AUDIO	<ul style="list-style-type: none">● Gain Adjustable through unity● Input Impedance 10Kohm● Output Impedance 50ohm● Frequency Response +/- 0.2db 10 Hz to 50 KHz● Hum and Noise -90dB● Crosstalk 95dB at 1KHz● Distortion @ 0dB 0.01% @ 12dB 0.05%
INPUTS	<ul style="list-style-type: none">● Video 1V (looping or terminating)● Audio balanced or unbalanced
OUTPUTS	<ul style="list-style-type: none">● Video 1V (one or two outputs per bus)● Audio balanced or unbalanced
POWER	<ul style="list-style-type: none">● 98-125V or 198-250V
CASE	<ul style="list-style-type: none">● Width 19" rack mounting● Depth 410mm including rear connectors● Height 1U (44mm)● Weight depending on matrix size
CONNECTOR TYPES	<ul style="list-style-type: none">● Video BNC● Power (mating supplied) IEC● Audio XLR, RCA phono or EDAC

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