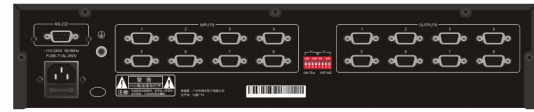




# VGA Matrix Switcher

Embedded software: HD matrix input card embedded software V4.40  
TS-9104V



## Description:

The VGA series matrix switcher is a high-performance intelligent matrix switch device specially designed for the display switching and distribution of computer signals (i.e RGBHV signals). It is used to switch multiple signals from the input channel to any output channel. The output channels are independent of each other. The VGA series matrix switchers with audio allow synchronous or asynchronous switching of computer signals and audio signals. VGA series matrix switchers use professional matrix chips, with their own buffers, the output is more stable, and the image is highly clear. VGA series matrix switchers can stand by for 24 hours and can support the power-off memory protection function. With RS232 serial communication interface, it can be used with various remote control devices of the computer. VGA series matrix switchers are rich in product models, ranging from VGA8 series to VGA16 series, to meet the different needs of users, and are widely used in multimedia conference rooms, TV studios, command centers and other occasions.

## Feature:

- \* Support 8/16 audio and video signal inputs, 2/4/8/16 audio and video signal outputs.
- \* Video broadband height is 350MHz (-3dB) full load.
- \* Provide multiple preset saving options, with power-off memory protection function.
- \* The LCD displays the switching operation status in real time, and with the panel operation keyboard, the current input/output channel connection status can be queried.
- \* Support RS232 communication function.
- \* Support quick switching operations, making the operation easier and faster.
- \* Independent VGA input and output terminals, using DB15 female interface, support various RGB, VGA signal sources.
- \* The audio input and output interface adopts 5-bit 3.8mm Phoenix interface.
- \* Support video signal types: RGBHV, RGBS, RGsB, RsGsBs HDTV, component video, s-video, composite video (signal).
- \* Support audio signal types: stereo, balanced or unbalanced connection.
- \* Using programmable logic display circuit, arbitrary interactive switching.
- \* Support distortion compensation technology for long-distance signal transmission.
- \* Built-in international general power supply module.

## Specification:

<b>VGA video signal</b>	
Video bandwidth	350MHz(-3dB) full load
Input signal	RGBHV, RGBS, RGsB, RsGsBs
Input port	DB15 female port
RGB input level	0.5Vp-p~ 2.0Vp-p
RGB input impedance	75Ω
HV input level	0.5V~5.0Vp-p
HV input impedance	510Ω
Output signal	RGBHV, RGBS, RGsB, RsGsBs
Output port	DB15 female port
RGB output level	0.5Vp-p ~ 2.0Vp-p
RGB output impedance	75Ω
HV output level	0.5V ~ 5.0Vp-p
HV output impedance	75Ω
Return loss	<-30dB@5MHz
Horizontal frequency response	15KHz~145KHz
Vertical frequency response	30 Hz~170 Hz
<b>Analog audio signal</b>	
Audio bandwidth	150MHz(-3dB) full load
Input signal	Stereo (balanced or unbalanced) signal
Input port	5-bit 3.8mm Phoenix socket
Maximum input level	+19.5dBu
Input impedance	> 10KΩ
Output signal	Stereo (balanced or unbalanced) signal
Output port	5-bit 3.8mm Phoenix socket
Maximum output level	+19.5dBu
Output impedance	>50Ω
Frequency response	20Hz-20KHz, +0.05dB
SNR	>90dB
Stereo channel isolation	>80dB @ 1kHz
CMRR	>75dB @ 20Hz~20kHz
<b>Device specification</b>	
Maximum transmission delay	5nS (±1nS)
Switching delay	200nS (maximum)
MTBF	50000 hours
Working temperature	-20~45°C
Ambient humidity	20%~80% relative humidity, no condensation
Input power	~100-240V 50-60Hz
Dimension	2U height, 484×303×88mm (L×W×H)