

➔ **MSX404 4x4 VGA Matrix switcher card**



▶ **Overview**

The Teq AVIT Combo matrix switcher is the universal solution for the complicated signal formats environment. It is providing the extension slots for various cards, depending on the requirement of the customers, including the DVI, VGA, C-Video, YC, RGB etc. And, it is providing the PS2 card as the optional choice for the keypad and mouse, for the totally solution of PC

▶ **Feature**

- :: 350 MHz (-3 dB) video bandwidth, fully loaded
- :: All models are also fully compatible with RGBS, RGsB, HDTV, component video, S-video, and composite video signals.
- :: RS-232 serial control port. Using serial commands
- :: Button locking, password protection
- :: Internal international power supply (100Volt~240Volt AC, 50/60Hz) for worldwide compatibility, all models are equipped with an internal, auto-switching power supply that meets or exceeds all appropriate safety certifications.
- :: Front panel security lockout. Avoid unauthorized use when the matrix switcher is installed in an unsecured environment where easy access is not desirable.
- :: IR remote control .Default IR remote to control the full function of matrix switcher.
- :: Global presets. We provide 10 presets. Save and recall the function.
- :: Fasten switching speed: 200ns (Max). It is the high speed for the good performance.
- :: LCD working status live display. It shows you the system information, switching information of the product.

Diagram



▶ **Specifications**

Video Part: (C-Video, S-Video, YPbPr)

Video Signal	Composite Video, Super Video, YC, YPbPr		
Gain	0 dB	Bandwidth	150MHz(-3dB), fully load
Switching type	Vertical interval	Video Impedance	75Ω
Switching Speed	200ns(Max.	Input/output level	0.5V~2.0Vp-p
Video type	NTSC3.58, NTSC4.43, PAL, SECAM	Stereo Channel Separation	>80dB@1 kHz
Frequency Response	20Hz-20KHz	CMRR	>90Db
Software Control	Switch 2.0	Humidity	10%-90%
Temperature	20 to +70C		

VGA PART: (Computer Graphics)

Video Signal	RGBHV, RGBS, RGsB, RsGsBs		
Gain		Bandwidth	350MHz(-3dB), fully load
crosstalk multi to Single channel	-60dB @10 MHz -39dB @100 MHz	Video Impedance	75Ω
Switching Speed	200ns(Max.	Input/output level	0.5V~2.0Vp-p
Temperature	-20 to +70C		
		Humidity	10%-90%

Digital Video Part: (DVI, HDMI)

Video Signal	DVI 1.0 standard DVI-D full digital T.M.D.S signal		
Gain	0 dB	Bandwidth	4.95G In total, 1.65G per Color
C	5nS(±1nS)	Video Impedance	50Ω
Switching Speed	200ns(Max.	Input/output level	T.M.D.S 2.9V/3.3V
Temperature	-20 to +70C		
Video Signal	DVI 1.0 standard DVI-D full digital T.M.D.S signal	Connector	Female DB 24+5

Audio Part: (Stereo Audio)

Audio Signal	Capture screw connector. 1 balanced stereo, 1 unbalanced stereo		
Audio input Impedance	0 dB>10KΩ	Audio output Impedance	50Ω
Frequency response	20 Hz to 20 kHz, ±0.5 dB	THD + Noise	0.10% @ 1 kHz at nominal level
CMRR	65 dB @ 20 Hz to 20 kHz	Audio bits per sample	18 bits per channel, 2 channels (L, R)
Temperature	-20 to +70C		
		Humidity	10%-90%

PS2: (Keyboard and mouse)

Video Signal	DVI 1.0 standard DVI-D full digital T.M.D.S signal, HDMI 1.3			
Number	2 x HDB 15-pin female (integrated with 2 PS/2 interfaces)			
Signal Type	1 x PS/2 keyboard 6-pin mini din female 1 x PS/2 mouse 6-pin mini din female			
Temperature	-20 to +70C		Humidity	10%-90%

▶ **Market Application**

This model is the best solution for the corporate boardrooms, command and control centers, museums, university classrooms, sports bars, videoconferencing rooms, and home theaters are all environments where a MRG*A matrix switcher is effective.

Quick Fact: Teq AVIT brought first HDMI and DVI extender over single CAT6 cable to the world with its patented HD CAT One technology