

➔ MSF103 3 U high Combo Flexible Matrix Switcher Base Unit



Overview

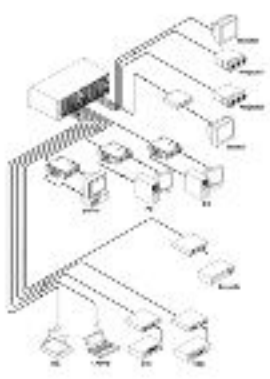
The Teq AVIT Combo matrix switcher is the universal solution for the complicated signal formats environment. It is providing the extension slots for various cards, depending on the requirement of the customers, including the DVI, VGA, C-Video, YC, RGB etc. And, it is providing the PS2 card as the optional choice for the keypad and mouse, for the totally solution of PC. And, providing the CAT5 slots for the twisted pair, working compatible with Teq AVIT TP200, TP300, TP400, for the long distance signal transmission

Extension slots for connection, Compatible with C-Video, YC, VGA, Audio, DVI and more Compatible with 4x4, 8x8, 16x16 extension matrix  
Maximum working with 5 extension slots. ID auto-adjustable function for different slots RS232, TCP/IP controlling, IR remote default accessory LED working status live display

Feature

- :: Auto-ID setting. The extension slot can be adjusting the ID by manual or auto setting. The different ID will following different RS232 command for identification
- :: It is working compatible with the 4x4, 8x8 and Max 16x16 switching. It depends on the setting of the different slots
- :: Easy maintenance, modular design for the PCB and the parts. It can make every body become the maintenance engineer
- :: RS-232 serial control port. Using serial commands
- :: Button locking, password protection
- :: Rack-mountable metal enclosure, from 1U to 7U.
- :: Internal international power supply (100Volt~240Volt AC, 50/60Hz) for worldwide compatibility, all models is equipped with an internal, auto-switching power supply that meets or exceeds all appropriate safety certifications
- :: IR remote control .Default IR remote to control the full function of matrix switcher.
- :: Fasten switching speed: 200ns (Max). It is the high speed for the good performance
- :: LED 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	Bandwidth	150MHz(-3dB), fully load
Gain	0 dB	Video Impedance	75Ω
Switching type	Vertical interval	Input/output level	0.5V~2.0Vp-p
Switching Speed	200ns(Max.)	Stereo Channel Separation	>80dB@1 kHz
Video type	NTSC3.58, NTSC4.43, PAL, SECAM	CMRR	>90db
Frequency Response	20Hz-20KHz	Humidity	10% to 90%
Temperature	-20 to +70°C		

VGA Part: (Computer Graphics)

Video Signal	RGBHV, RGBS, RGSB, RsGsBs	Bandwidth	350MHz(-3dB), fully load
Gain	0 dB	Video Impedance	75Ω
crosstalk multi to Single channel	-60dB @10 MHz -39dB @100 MHz	Input/output level	0.5V~2.0Vp-p
Switching Speed	200ns(Max.)	Humidity	10% to 90%
Temperature	-20 to +70°C		

Digital Video Part: (DVI, HDMI)

Video Signal	DVI 1.0 standard DVI-D full digital T.M.D.S signal	Bandwidth	4.95G In total, 1.65G per Color
Gain	0 dB	Video Impedance	50Ω
C	5nS(±1nS)	Input/output level	T.M.D.S 2.9V/3.3V
Switching Speed	200ns(Max.)	Humidity	10% to 90%
Temperature	-20 to +70°C	Connector	Female DB 24+5
Video Signal	DVI 1.0 standard DVI-D full digital T.M.D.S signal		

Audio Part: (Stereo Audio)

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

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 +70°C
Humidity	10% to 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