SB-4144

4X4 VGA MATRIX SWITCHER + IR + RS-232



INPUTS: 4X VGA (RGBHV), 4X STEREO AUDIO (AR/AL)

OUTPUTS: 4X VGA (RGBHV), 4X STEREO AUDIO (AR/AL)

EAR RACK: 1U-440L





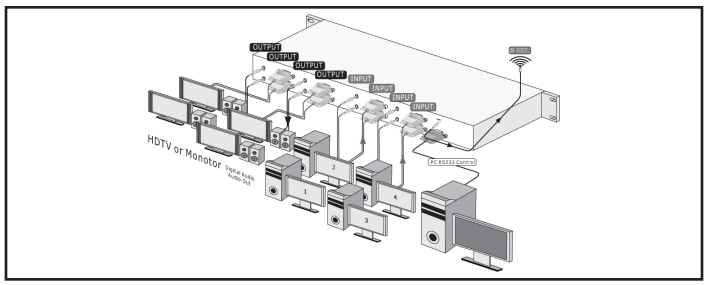
INTRODUCTION

SB-4144 is a true (4) in To (4) out Matrix Switcher with high speed Video Bandwidth 425MHz, Maximum 450MHz, Audio Bandwidth 60MHz. Supports signals for VGA (RGBHV) and Stereo Audio (AR/AL) product. It is an (4) individual VGA(RGBHV) & Stereo Audio(AR/AL) inputs with (4) individual VGA (RGBHV) & Stereo Audio (AR/AL) outputs. Support 19 inch Ear mount pair part number #1U-440L and MRM is full 19 inch 1RU Rack mount part type. It support (4) individual inputs with (4) individual outputs. Because it is a matrix routing switcher, any inputs may be routed to any output. It completely eliminates the need to constantly move around VGA or Audio input and output cables. This switcher is ideally suited for full HD High Definition LCD TV, HD Television or HD Monitor for VGA (R,B,G,H,V) signals or full HD Plasma display monitor resolution applications. Control is provided Front panel push buttons, IR remote or RS-232. A RS-232 Windows GUI interface is provided for matrix routing control (Windows only).

FEATURES

- (4) inputs to (4) outputs VGA & Audio Matrix Switcher
- Input signals via (4)x analog VGA (RGBHV) and Stereo Audio (3.5mm OD Jack)
- Output signals via (4)x analog VGA (RGBHV) and Stereo Audio (3.5mm OD Jack)
- Video Bandwidth 425MHz (-3dB), 200 mVp-p, maximum 450 MHz, each path signals
- Audio Bandwidth 60MHz (Audio-Right = 60Mhz, Audio-Left = 60MHz)
- Audio Frequency Response range : 20Hz ~ 20KHz
- Supported selection push buttons direct channel on front panel.
- Support PC Resolution VGA (640x480), SVGA (800x600), XGA (1024x768), SXGA (1280x1024), UXGA (1600x1200), WUXGA (1920x1200)
- Low all hostile crosstalk of -83dB@5Mhz
- Excellent ESD rating : exceeds 4000V
- Various User Interface controls:
  - Windows based GUI control via RS-232 port
  - Front Panel push button
  - IR wireless remote controller
  - Third party RS-232 controller (via simple ASCII)
- Compatible with full HD high resolution Video player device and LCD/Plasma monitor displays or Projector
- Direct selection and confirm via Front push buttons with LED readout
- Infrared : IR remote control (38KHz)
- Support RS-232 interface control AP driver for PC 95/98/2000/xp
- A Windows-based control software Driver packaged
- Supports desktop with Ear mount and 19 inch 1U Rack mountable type panel
- Supports Lower power consumption full load under 950mA
- Power supply DC12Volt, Universal Type Switch 100~240VAC, 50/60Hz

EXAMPLE



4X4 VGA-AUDIO MATRIX SWITCHER

SPECIFICATIONS

- Type of VGA switch: (4) inputs to (4) outputs VGA and Stereo Audio Matrix Switcher
- Video Support: Analog VGA (75Ω), 1Vp-p Output Signal (RGB) 0.7Vp-p
- Resolution Supports: VGA, SVGA, XGA, SXGA, UXGA, WUXGA (1920x1200)
- Video Bandwidth: VGA (RGBHV): 425MHz, (-3 dB) 200 mVp-p, 450MHz, (-3dB) 2Vp-p, R=425MHz, G=425MHz, B=425MHz, H=110MHz, V=110MHz Audio
- Audio Frequency: Response range : 20Hz ~ 20KHz
- Audio Bandwidth : 60MHz, (Audio-Right = 60MHz, Audio-Left = 60MHz)
- Input : (4)x Video (VGA-RGBHV) use D-sub HD15P connectors
  (4)x Audio (Stereo Audio) use 3.5mm OD Jacks
- Output : (4)x Video (VGA-RGBHV) use D-sub HD15P connectors
  (4)x Audio (Stereo Audio) use 3.5mm OD Jacks
- Source Status: Input status LEDs indicates presence of a live signal
- Gain Flatness: 90Mhz , 0.1dB
- Differential Gain Error: 0.01%, 0.1 dB
- Differential Phase Error: 0.02, 0.1dB (RL=150 W)
- Fast settling time: 15ns To 0.1%
- All Hostile Crosstalk: -83db@5MHz, -54dB@50MHz
- Channel Crosstalk: -56db@100MHz
- Slew Rate: 1000 V/us, G=+1, 2VStep
- High OFF Isolation: -100dB@10MHz
- Output Current: 100mA
- Infrared Frequency: 38KHz
- Switch Controls:
  - 1x Select Function buttons on front panel (Data status via LCD panel show out)
  - 1x IR Remote Controller (switch control)
  - 1x RS-232 series interface (switch control)
- (8) Function key Control: 1. Destination button (1) thru (4), 2. Source button (1) thru (4)
- Chassis Material: Metal thin = 1 mm
- Safety Approvals: CE, FCC, VCCI, Erp, WEEE
- Dimensions (LxWxH): 17.32 x 7.80 x 1.73 in (440x200x44 mm)
- Rack Mount: 1RU High 19 "Rack Mount #1U-440L (with rack mount)
- Net Weight (Unit Only): About 2.45kg / 5.4 lb
- Power Voltage Input: DC 12V@2A , Use Universal switch Type 50/60Hz, 100~240VAC