

SB-5688AK

8x8 HDMI Matrix Switch with Auxiliary Audio

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

4K/2K
CAPABLE

Inputs : 8x HDMI , 8x Auxiliary Audio (Stereo Audio)

Outputs : 8x HDMI , 8x S/PDIF or ARC (TV Return Channel Audio)

PRO MATRIX HDMI S/PDIF ARC AUXILIARY



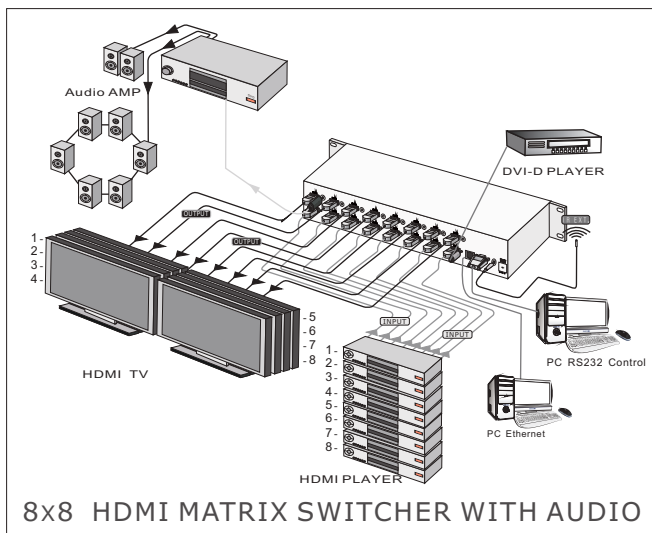
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INTRODUCTION

The SB-5688AK is professional 8x8 matrix routing switch. Supporting eight (8) HDMI Inputs and (8) Auxiliary Audio Inputs. Output supported (8) HDMI and (8) SPDIF audio. The SB-5688AK is based on the HDMI standard and supports full resolution HDMI Video with embedded EDID, With a signal bandwidth of 340Mhz, there is no signal degradation. High Definition Digital signals can be selected and distributed to any (8) Inputs to (8) outputs. The Switcher is certified as being fully CEC , ARC and HDCP 2.0 compliant, full HD 4K2K HDMI V1.4a 3D formats, data rates up to 6.75 Gbps. Supports UXGA/WUXGA/DVI 1920x1200 resolution to any HD displays. The SB-5688AK has 1x HDMI and Auxiliary Audio (analog stereo audio) connector for Input, effectively making this an 8 in x8 out switcher. The EDID management can be selected between seven (7) different modes. Control is provided via Front panel push buttons, IR remote, RS-232 or TCP/IP (not a web-browser). An RS232 Windows GUI interface is provided for matrix routing control (Windows only).

SB-5688AK 8x8 HDMI Matrix Switcher with Auxiliary Audio



8X8 HDMI MATRIX SWITCHER WITH AUDIO

FEATURES

- (8)x HDMI with Auxiliary Audio (Analog Audio) source devices matrix switched to (8)x HDMI with S/PDIF output destinations.
- HDMI digital Video w/embedded HDCP, DVI format and CEC/HDCP 2.2 compliant
- Worldwide control EDID modes for HDMI full 4K2K (24/30 Hz) HD Video resolutions.
- Link speeds of up to 6.75 Gbps (link clock rate of 340MHz), Support HDMI 4K2K, 1.4a 3D formats.
- Wide range of HD resolutions from PC XGA to WUXGA 1920x1200 and HDTV/DTV HDMI resolutions 480i/480p, 576i/576p, 720p, 1080i/p & 4K2K (24/30Hz).
- Digital Video TMDS formats Resolution up to 4K2K with Deep color 36-bit.
- Digital Audio Support :
 - Dolby TrueHD,
 - Dolby Digital,
 - Dolby Digital Plug/ex,
 - DTS,
 - DTS-HD,
 - DTS-HD Master,
 - DTS-EX
 - PCM, PCM2, LPCM2.
- Audio Input : Support Auxiliary Audio (Analog stereo audio).
- Audio Output : Support Digital audio ARC or Digital audio S/PDIF (from HDMI source or Auxiliary Audio)
- Various User Interface controls:
 - Windows based GUI control via RS232 port
 - Front Panel push button
 - IR wireless remote controller
 - Ethernet Switch control
 - Third party RS232 controller (via simple ASCII)
- Support world wide (9)x control function keys:
 - Full function front panel controls: ARC / AUX/ ALL / OFF / EDID / LOCK / RECALL / MEMORY / ENTER
- Support EDID modes :
 - a. Embedded EDID modes :
 - FSS/ H24-3D/ H24-3D-M/ H36-3D/ H36-3D-M/ 4K2K-3D / DVI-D 1920x1200-60Hz
 - b. External modes : Learning mode.
- Automatic scanning input & output status via LCM show on front panel.
- Support IR Remote and IR Extender with distance up to ~ 984 feet (300M) Maximum.
- Support Universal power adaptor AC100V~240V, 50/60Hz

SPECIFICATIONS

- Type of HDMI Switcher: 8x inputs To 8x Outputs HDMI Matrix Switch with Audio and Extension
- HDMI Support: HDMI 4K2K, 1080P-@60Hz, H36-bit Deep color, 3D of HDMI V1.4 formats.
- HDCP / CEC Support : HDCP 2.2 Compliant, CEC Compliant.
- Video Bandwidth : Double Data Rates: 340MHz, Total 6.75Gbps bandwidth.
- Digital Video Support : HD:480i/ 480p/ 720p/ 1080i/p and 4K2K up to 36bit deep color
- Video Input : 8x HDMI (HDMI or DVI digital source).
- Audio Input : 8x Audio (Analog Stereo, AUX port. 3.5mm Jack).
- Video Output : 8x HDMI (To Destination).
- Audio Output : 8x S/PDIF : Multi Audio Formats 5.1 from HDMI or LPCM-2CH from Auxiliary audio.
- 8x ARC : TV Return Channel Audio.
- 8x HDMI : Multi Audio Formats 5.1 / 7.1, MAT(MLP), Dolby Digital, Dolby TrueHD, Dolby Digital Plus, DTS, DTS-ES 6CH, DTS-HD, DTS-HD-HRA, DTS-HD Master, (PCM-2CH)
- Switch Controls :
 - 1x Select & Function buttons on front panel (Data status via LCM panel show out)
 - 1x IR Remote Controller (switch control)
 - 1x IR External port (switch control via 3.5mm OD Jack)
 - 1x RS 232 series interface (switch control)
 - 1x Ethernet series interface (switch control)
- Source Status: Input status LEDs indicates presence of a live signal.
- (25) Function Control Keys: 1.ARC, 2.AUX, 3.ALL, 4.OFF, 5.RECALL, 6.ENTER, 7.MEMORY, 8.LOCK, 9.EDID, 10. Destination button (1) thru (8), 11.Source button (1) thru (8).
- (8) EDID management :
 - Select Embedded EDID modes :
 - Fast Speed Start®, H24-3D, H24-3D-M, H36-3D, H36-3D-M, 4K2K-3D, PCM-2CH, DVI-D 1920x1200-60Hz.
 - Select LEARNING mode :
 - Learning Destination EDID To Link Source.
- Infrared Frequency : 38 KHz
- IR External Distance : ~984 feet / 300 meters maximum.
- HDMI I/O Connector : HDMI Type A - SMD 19pin Female Type
- Temperature : Operating Temperature 32 °F - 100 °F (0 °C - 32 °C)
- Dimensions : LxWxH=19 "x 9.85 " x 1.73 "(482mm x 250mm x 44mm)
- Rack Mount : 1RU High 19 "Rack Mount #1U-440L (with rack mount)
- Power Supply : DC12V, 5A, Power Input : AC 100~240 VAC 50/60Hz (universal Type Supply)
- Safety Approvals : CE, FCC, REACH.
- Product Weight : 3.75 Kgs / 6.25 lb