

SB-5645AK

4x4 HDMI Matrix Switch with Auxiliary Audio



Input : 4x HDMI, 4x AUX
Output : 4x HDMI, 4x S/PDIF or ARC

S/PDIF ARC AUXILIARY PRO MATRIX SWITCHER



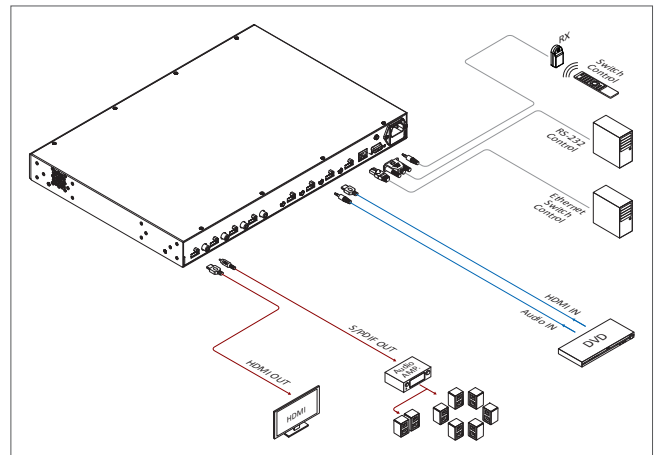
Ear Rack : 1U-440L

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INTRODUCTION

The SB-5645AK is professional 4x4 matrix routing switch. Supporting four (4) HDMI™ Inputs and (4) Auxiliary Audio Inputs. Output supported (4) HDMI™ and (4) S/PDIF audio. The SB-5645AK 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 (4) Inputs to (4) outputs. The Switcher is certified as being fully CEC , ARC and HDCP 1.3 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-5645AK 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 RS-232 Windows GUI interface is provided for matrix routing control (Windows only).

DIAGRAM TYPICAL



FEATURES

- Four (4)x HDMI with Auxiliary Audio (Analog Audio) source devices matrix switched to Four (4)x HDMI with S/PDIF output destinations.
- HDMI digital Video with embedded HDCP, DVI format and CEC/HDCP 1.3 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-in
- 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 RS-232 port
 - Front Panel push button
 - IR wireless remote controller
 - Ethernet Switch control
 - Third party RS-232 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
- Supports seven (7) worldwide standard embedded EDID modes
- 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	4x inputs To 4x Outputs HDMI Matrix Switch with Audio
HDMI Support	HDMI 1080P, 4K2K-30Hz, 36-bit Deep color, HDMI V1.4a 3D formats
HDCP / CEC Support	HDCP 1.3 Compliant, CEC Compliant
Video Bandwidth	Double Data Rates:340Mhz, Total 6.75Gbps bandwidth
Video Input	4x HDMI (HDMI or DVI digital source)
Audio Input	4x Audio (Analog Stereo, AUX port. 3.5mm Jack)
Video Output	4x HDMI (To Destination)
Audio Output	4x S/PDIF:Multi Audio Formats 5.1 from HDMI or LPCM-2CH from Auxiliary audio 4x ARC:TV Return Channel Audio. 4x HDMI:Multi Audio Formats 5.1 / 7.1, MAT(MLP), Dolby Digital, Dolby TrueHD, Dolby DigitalPlus, 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	1x Ethernet series interface (switch control)t status LEDs indicates presence of a live signal
(17) Function Control Keys	1.ARC, 2.AUX, 3.ALL, 4.OFF, 5.RECALL, 6.ENTER, 7.MEMORY, 8.LOCK, 9.EDID, 8.Destination button (1) thru (4), 9.Source button (1) thru (4)
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)
Safety Approvals	CE, FCC, REACH
Rack Mount Bracket	19 inch 1U High Rack Mount Bracket (1U-440L)
Dimension (WxDxH)	17.4" x 11.9" x 1.73" (442mm x 303mm x 44mm)
Weight	2.6 kg / 5.73 lb
Power Supply	AC 100~240V 50/60Hz