# SB-5601

2x1 HDMI SWITCHER

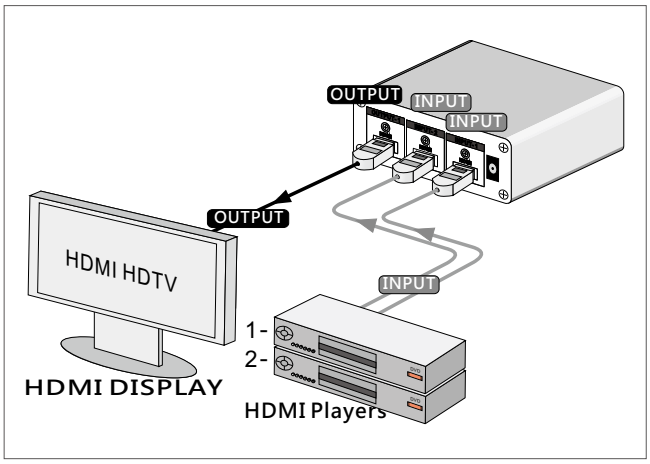
Input : 2x HDMI
Output : 1x HDMI

SWITCHER

## INTRODUCTION

The SB-5601 is a competitive, high performance switcher designed for HDMI™ signal support Digital Video TMDS format and Digital Audio via HDMI™ connector. Providing 2 inputs and 1 output, the switcher support data rates up to 2.25 Gbps. Also Control any inputs to output via press the selection buttons on front panel. This product is certified, and with fully HDMI™ and HDCP compliant. The product approved the CE , FCC compliant. Support High resolution1080p quality HDMI™ sources to HDMI™ display, monitor or projector.

## DIAGRAM TYPICAL




## FEATURES

01. Support 2:1 HDMI Switcher
02. Input : 2x HDMI (with HDCP) via 2x HDMI connectors
    Output : 1x HDMI (with HDCP) via 1x HDMI connector
03. Support HDMI Max Data Rate – 2.25Gbps
04. HDTV Compatible and HDCP compliant
05. Control by press buttons on the front panel
06. Power Input : DC 12V, AC100V~240V Universal switch adaptor

## SPECIFICATIONS

| | |
|---|---|
| Type of Switcher | 2x1 HDMI Switcher |
| Type of Signal | TMDS Digital Video PCM Digital Audio |
| Compliant with HDMI standard | HDMI and HDCP |
| HDTV Support | 1080p HDMI formats and UXGA 1600x1200 |
| Data Rates | 250Mbps to 2.25 Gbps |
| Pixel clocks | 25MHz ~ 225 MHz |
| HDMI Cable Distance | 15 meters at 2.25Gbps |
| Controls | select buttons on the front panel |
| Safety Approvals | CE, FCC, VCCI, REACH, Erp, WEEE |
| Dimension (WxDxH) | 4.45" x 2.84" x 1.15" (112.9mm x 72mm x 29.1mm) |
| Weight | 0.2 Kg / 0.44 lb |
| Power Supply | DC 12V /0.42A Max<br>Use Universal Switch Type 50/60Hz, 100~240VAC |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# SB-5601K

2x1 HDMI Routing Switcher

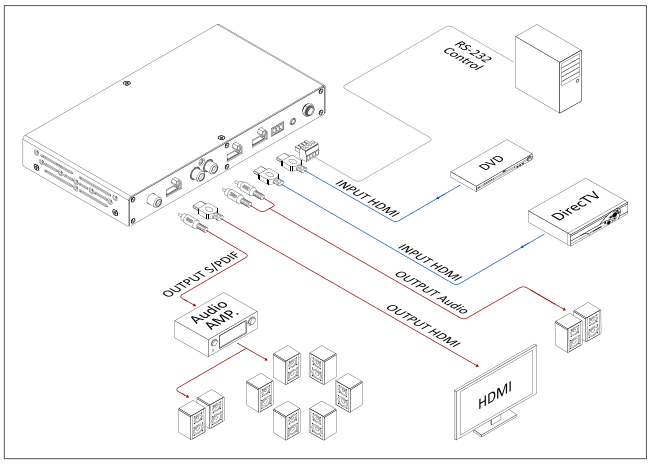
Input : 2x HDMI
Output : 1x HDMI / S/PDIF / Stereo Audio (AR/AL)

PRO SWITCHER 4K2K-60Hz

## INTRODUCTION

The SB-5601K is professional 2x1 4K2K HDMI™ Routing Switcher. Supporting two (2) HDMI™ Inputs, one (1) HDMI™, S/PDIF and Stereo Audio (AR/AL) output. The SB-5601K is based on the HDMI™ standard 4K2K and supports full resolution HDMI™ Video with a signal bandwidth of 340Mhz, there is no signal degradation. High Definition Digital signals can be switched (two) Inputs to (1) output. The Routing Switcher is certified as being fully CEC and HDCP 2.2 compliant, full UHD HDMI™ V2.0, data rates up to 6.75 Gbps. Supports UXGA/WUXGA/DVI 1920x1200 resolution to any HD displays. It supports cable distance up to 20M for 4K2K and 30M for 1080p. Input status LED's indicate the presence of a live signal. Controlis provided via Front panel push buttons.

## DIAGRAM TYPICAL




## FEATURES

01. (2)x HDMI 4K2K source device routing switch to (1)x HDMI output 4K2K destinations
02. HDMI digital Video 4K2K TMDS w/embedded HDCP, DVI format and CEC / HDCP 2.2 compliant
03. Link speeds of up to 6.75 Gbps (link clock rate of 340MbHz), Support HDMI 4K2K, V2.0
04. Wide range of HD resolutions from PC XGA to WUXGA 1920x1200 and HDTV/DTV HDMI resolutions 480i/480p, 576i/576p, 720p, 1080i/p & 4K2K (60Hz)
05. Digital Video TMDS formats Resolution up to 4K2K with Deep color 12-bit
06. Audio Input : Support HDMI standard multi-channel digital audio
07. Audio Output : Support HDMI standard multi-channel digital audio
08. User Interface controls: Front Panel push button
09. Support HDMI Output with Booster function, Cable Distance 4K2K 65 feet (20M) & 1080p-60Hz 98 feet (30M)
10. Support Universal power adaptor Power input AC100V~AC240V, 50/60Hz

## SPECIFICATIONS

| | |
|---|---|
| Type of HDMI Switcher | 2x input To 1x Outputs HDMI Switcher |
| HDMI Support | HDMI 1080P, 4K2K-@60Hz, H12-bit Deep color |
| HDCP / CEC Support | HDCP 1.3 Compliant, CEC Compliant |
| Video Bandwidth | Double Data Rates : 340Mhz, Total 6.75Gbps bandwidth |
| Input | 2x HDMI (HDMI or DVI digital source) |
| Output | 1x HDMI (To Destination) |
| Switch Controls | 1x Select & Function buttons on front panel (Data status via LCM panel show out) |
| Input Status | Autoscan the input status and show via LEDs to indicate a live signal |
| HDMI Signal Booster | Distance 4K2K Cable 65 feet (20M), 1080p Cable 98 feet (30M) |
| Infrared Frequency | 38 Khz |
| Firmware Update | Firmware update via mini-USB Jack |
| HDMI I/O Connector | HDMI Type A - SMD 19pin Female Type |
| Temperature | Operating Temperature 32°F - 100°F (0°C - 32°C) |
| Dimension (WxDxH) | 8.27" x 4.45" x 1.06" (210mm x 113mm x 27mm) |
| Power Supply | DC12V, Powr Input : AC 100~240 VAC 50/60Hz (universal Type Supply) |
| Safety Approvals | CE, FCC, REACH |
| Weight | 0.7 Kg / 1.54 lb |

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# SB-5604

4x1 HDMI ROUTING SWITCHER

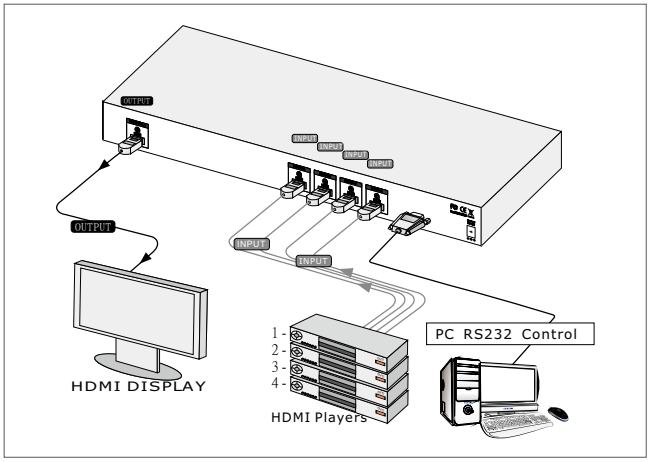
Input : 4x HDMI
Output : 1x HDMI

SWITCHER

## INTRODUCTION

The SB-5604 is a competitive, high performance switcher designed for HDMI™ signal, support Digital Video TMDS format and Digital Audio via HDMI™ connectors. Providing 4 inputs and 1 output. The Switcher support data rate up to 2.25 Gbps. Also control any inputs to output via press the selection buttons on the front panel. Control by selection buttons on the front panel, IR Remote controller and RS-232 via a PC. This product is certified and fully HDMI™ and HDCP compliant. The product approved the CE, FCC compliants. Support high resolution 1080p quality HDMI™ sources to a HDMI™ display, monitor or projector.

## DIAGRAM TYPICAL




## FEATURES

01. Support HDMI 4xInputs to 1xOutput Switcher
02. Input: 4x HDMI (with HDCP) via 4x HDMI connector
03. Output: 1x HDMI (with HDCP) via 1x HDMI connectors
04. Support HDMI Max Data Rates – 2.25Gbps
05. HDTV Compatible and HDCP compliant
06. Control by press buttons on the front panel
07. RS-232 serial port interface on the rear panel
08. IR transceiver on the front panel and IR External device connection
09. Input status with LED display

## SPECIFICATIONS

| | |
|---|---|
| Type of Switcher | 4x1 HDMI Switcher |
| Type of Signal | TMDS Digital Video PCM Digital Audio |
| Compliant with HDMI standard | HDMI and HDCP |
| HDTV Support | 1080p HDMI formats and UXGA 1600x1200 |
| Data Rates | 50Mbps to 2.25 Gbps |
| Pixel clocks | 25MHz to 225 MHz |
| HDMI Cable Distance | 15 meters at 2.25Gbps |
| Infrared frequency | 38KHz |
| Control | RS-232, IR, Select buttons (on the front panel) |
| Safety Approvals | CE, FCC, REACH, Erp, WEEE |
| Dimension (WxDxH) | 8.27" x 4.49" x 1.07" (210mm x 114mm x 27mm) |
| Weight | 0.7 Kg / 1.54 lb |
| Power Supply | DC 12V /1.25A<br>Use Universal Switch Type 50/60Hz, 100~240VAC |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# SB-5604K

4x1 HDMI Routing Switcher

Input : 4x HDMI / Stereo Audio (AR/AL), 2x AUX
Output : 1x HDMI / S/PDIF / Stereo Audio (AR/AL), 1x MIC

PRO | EDID | SWITCHER | 4K2K-60Hz

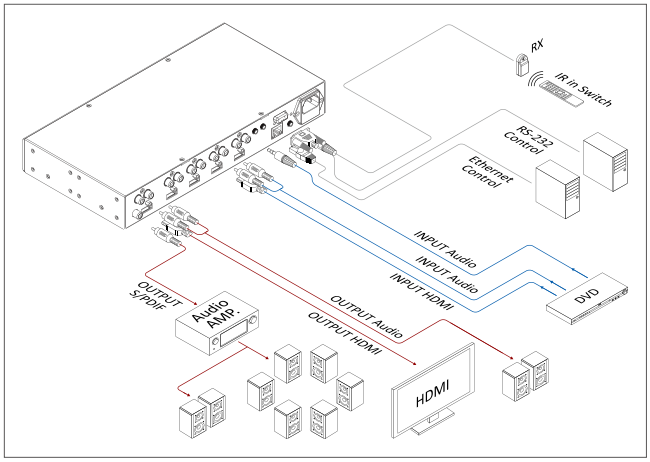
Ear Rack : 1U-300L



## INTRODUCTION

The SB-5604K is professional 6x1 4K2K HDMI™ Routing Switcher. Supporting four (4) HDMI™ with External Audio, 2x Stereo inputs and one (1) HDMI™, S/PDIF and Stereo Audio (AR/AL) output. The SB-5604K is based on the HDMI™ UHD 4K2K and supports full resolution HDMI™ Video with a signal bandwidth of 340Mhz. The Routing Switcher is able to switch Video and Audio separately. The HDMI™ output can be selected from 4xHDMI™ inputs, the Audio output cab be selected from HDMI™ inputs or Stereo Audio inputs. The Routing Switcher is certified as being fully CEC and HDCP 2.2 compliant, full HD 4K2K HDMI™ 2.0 formats, data rates up to 6.75 Gbps. Supports PC resolution up to 1920x1200. It supports cable distance up to 65 feet (20M) for 4K2K and 98 feet (30M) for 1080p. Volume up and down can be controlled via Knob. Input status LED's indicate the presence of a live signal. Controls provided via Front panel push buttons, IR, RS-232 and Ethernet.

## DIAGRAM TYPICAL




## FEATURES

01. (4)x HDMI 4K2K source device routing switch to (1)x HDMI output 4K2K destinations
02. Support Video and Audio separate switching, audio output is able to switch not only from HDMI but also from Stereo Audio(AR/AL) and two AUX inputs
03. Support Six(6) audio inputs, four(4) is from HDMI or Stereo Audio(AR/AL) and two(2) is from AUX
04. Support HDMI 2.0 and HDCP 2.2 compliant
05. Link speeds of up to 6.75 Gbps (link clock rate of 340MbHz)
06. Wide range of HD resolutions from PC XGA to WUXGA 1920x1200 and HDTV/DTV HDMI resolutions
07. 480i/480p, 576i/576p, 720p, 1080i/p & 4K2K-60Hz
08. Digital Video TMDS formats Resolution up to 4K2K with Deep color 12-bit
09. Volume can be controlled via Knob
10. Audio bandwidth is 10Hz to 20KHz with Gain Error 0.05dB
11. Audio Output(AR/AL) : Support PCM 2ch
12. Audio Output(S/PDIF) : Support multi-channel digital audio up to 5.1ch
13. User Interface controls: Front Panel push button, IR, RS-232 and Ethernet
14. Support HDMI Output with Booster function, Cable Distance 4K2K 65 feet (20M) & 1080p-60Hz 98 feet (30M)
15. Support Universal power adaptor Power input AC100V~AC240V, 50/60Hz
16. Wall mounted ear rack included

## SPECIFICATIONS

| | |
|---|---|
| Type of HDMI Switcher | 4x input To 1x Outputs HDMI Switcher |
| Input | 4x HDMI, 4xStereo Audio (AR/AL), 2xAUX |
| Output | 1x HDMI, 1xS/PDIF, 1xStereo Audio (AR/AL) |
| HDMI Support | HDMI 1080P, 4K2K-@60Hz, H12-bit Deep color |
| HDCP / CEC Support | HDCP 2.2 Compliant, CEC Compliant |
| Video Bandwidth | Double Data Rates : 340Mhz, Total 6.75Gbps bandwidth |
| Audio Frequency | 10Hz ~ 20KHz |
| Audio Volume Control | +0 ~ +100 levels (+6db) |
| Audio Balance Control | L= +0 ~ +50, R= +51 ~ +100 |
| Gain Error | 0.05dB |
| THD+N | 0.004% @ 20KHz |
| De-emphasis Error | 0.05dB (FS=44.1KHz) |
| Dynamic range | 120dB |
| Fast setting time | 160nS |
| Harmonic Distortion | -88dB@0dB |
| Switch Controls | Front Panel, IR, RS-232 and Ethernet |
| HDMI Signal Booster | Distance 4K2K Cable 65 feet (20M), 1080p Cable 98 feet (30M) |
| Infrared Frequency | 38 Khz |
| HDMI I/O Connector | HDMI Type A - SMD 19pin Female Type |
| Temperature | Operating Temperature 32°F - 100°F (0°C - 32°C) |
| Wall Mount | 1 inch High Wall Mount pairs (P/N:WM-1INCH-80mm) |
| Dimension (WxDxH) | 11.97" x 6.06" x 1.73" (304mm x 154mm x 44mm) |
| Power Supply | DC12V, Powr Input : AC 100~240 VAC 50/60Hz (universal Type Supply) |
| Safety Approvals | CE, FCC, REACH |
| Weight | 1.95 Kg / 3.25 lb |

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# SB-5605

4x1 HDMI-DIGITAL-OPTICAL SWITCHER

Input : 4x HDMI / Digital Audio / Optical (Toslink)
Output : 1x HDMI / Digital Audio / Optical (Toslink)

SWITCHER

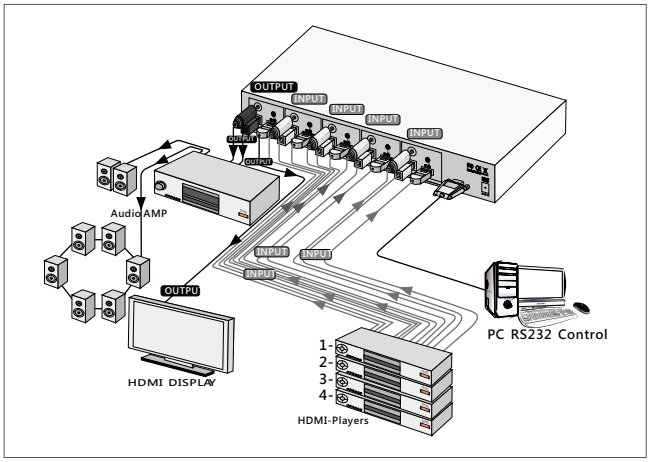
Ear Rack : 1U-300L



## INTRODUCTION

The SB-5605 is a competitive, high performance switcher designed for HDMI™ signal,Digital Audio(PCM) and Optical (Toslink) signals.
Support Digital Video TMDS format and Digital Audio via HDMI™ connectors. Providing 4 inputs and 1 output. The Switcher supports data rate up to 2.25Gbps. Also Control any inputs to output via press the selection buttons on the front panel. This product is certified, and fully HDMI™ and HDCP compliant. The product approved the CE & FCC compliants. Support high resolution 1080p quality HDMI™ sources to a HDMI™ display, Monitor or Projector.

## DIAGRAM TYPICAL




## FEATURES

01. Support 4:1 HDMI Switcher
02. Input : 4x HDMI
03. Output : 1x HDMI
04. HDTV Compatible and HDCP compliant
05. Support HDMI Max Data Rate – 2.25Gbps
06. Control by press buttons on the front panel
07. RS-232 serial port interface on the rear panel
08. IR transceiver on the front panel
09. Input status with LED display

## SPECIFICATIONS

| | |
|---|---|
| Type of Switcher | 4x1 HDMI Switcher |
| Type of Signal | TMDS Digital Video PCM Digital Audio |
| Compliant with HDMI standard | HDMI and HDCP |
| HDTV Support | 1080p HDMI formats and UXGA 1600x1200 resolution |
| Data Rates | 250Mbps to 2.25 Gbps |
| Pixel clocks | 25MHz to 225 MHz |
| HDMI Cable Distance | 15 meters at 2.25Gbps |
| Infrared frequency | 38KHz |
| Control | RS-232, IR, Select buttons (on the front panel) |
| Safety Approvals | CE, FCC, REACH, Erp, WEEE |
| Dimension (WxDxH) | 11.97" x 6.06" x 1.74" (304mm x 154mm x 44mm) |
| Weight | 1.4 Kg / 3.08 lb |
| Power Supply | DC 12V /1.25A Max<br>Use Universal Switch Type 50/60Hz, 100~240VAC |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# SB-5605K

4x2 HDMI · Digital · Optical Routing Switcher

PRO | EDID | SWITCHER | 4K2K-60Hz

Input : 4x HDMI / S/PDIF / Optical (Toslink)
Output : 1x HDMI / S/PDIF / Optical (Toslink) / Stereo Audio (AR/AL)
Six(6) modules : HDMI+Audio, SDI+Audio, HDBaseT+Audio, IP+Audio, DTV COAX (Page 01-01)

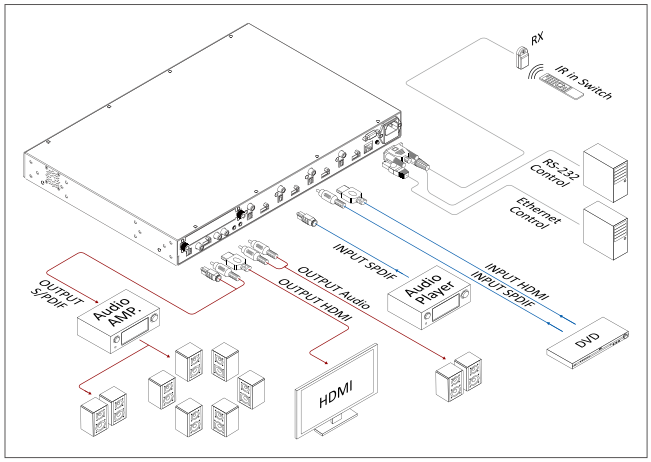
Ear Rack : 1U-440L



## INTRODUCTION

The SB-5605K is professional 4x2 4K2K HDMI™ Routing Switcher. Supporting four (4) HDMI™, Optical, S/PDIF Inputs, one (1) HDMI™, Optical, S/PDIF and Stereo Audio(AR/AL) Output. The SB-5605K is based on the HDMI™ UHD 4K2K and supports full resolution HDMI™ Video with a signal bandwidth of 340Mhz, there is no signal degradation. The Routing Switcher is certified as being fully CEC and HDCP 2.2 compliant, full UHD 4K2K HDMI™ 2.0 format, data rates up to 6.75 Gbps. Supports UXGA/WUXGA/DVI 1920x1200 resolution to any HD displays. It supports cable distance up to 65 feet (20M) for 4K2K and 98 feet (30M) for 1080p. Volume and Balance control is available for analog audio output. Input status LED's indicate the presence of a live signal. Controls provided via Front panel push buttons, IR, RS-232 and Ethernet.

## DIAGRAM TYPICAL




## FEATURES

01. (4)x HDMI 4K2K source device routing switch to (1)x HDMI output 4K2K destinations
02. Link speeds of up to 6.75 Gbps (link clock rate of 340MbHz)
03. Support HDMI 2.0, HDCP 2.2
04. Wide range of HD resolutions from PC XGA to WUXGA 1920x1200 and HDTV/DTV HDMI resolutions 480i/480p, 576i/576p, 720p, 1080i/p & 4K2K-60Hz
05. Digital Video TMDS formats Resolution up to 4K2K with Deep color 12-bit
06. Volume and Balance control is available for analog audio output
07. The additional output module can be supported different various type of signal modules
08. Easily control via seventeen(17) fucntion control keys
09. Audio Input : Support HDMI standard multi-channel digital audio
10. Audio Output : Support HDMI standard multi-channel digital audio
11. User Interface controls: Front Panel push button, IR, RS-232 and Ethernet
12. Support HDMI Output with Booster function, Cable Distance 4K2K 65 feet (20M) & 1080p-60Hz 98 feet (30M)
13. Support Universal power adaptor Power input AC100V~AC240V, 50/60Hz
14. Wall mounted ear rack included

## SPECIFICATIONS

| | |
|---|---|
| Type of HDMI Switcher | 4x input To 1x Outputs HDMI Switcher |
| Input | 4x HDMI, 4xOptical, 4xS/PDIF |
| Output | 1x HDMI, 1xOptical, 1xS/PDIF, 1xAnalog Audio (AR/AL) |
| HDMI Support | HDMI 1080P, 4K2K-@60Hz, H12-bit Deep color |
| HDCP / CEC Support | HDCP 2.2 Compliant, CEC Compliant |
| Video Bandwidth | Double Data Rates : 340Mhz, Total 6.75Gbps bandwidth |
| Audio Frequency | 10Hz ~ 20KHz |
| Audio Volume Control | +0 ~ +100 levels(+6db) |
| Audio Balance Control | L= +0 ~ +50, R= +51 ~ +100 |
| Gain Error | ±0.05dB |
| THD+N | 0.0004% @ 20KHz |
| De-emphasis Error | ±0.05dB (FS=44.1KHz) |
| Dynamic range | 120dB |
| Fast setting time | 160nS |
| Harmonic Distortion | -88dB@0dB |
| Switch Controls | Front Panel, IR, RS-232 and Ethernet |
| HDMI Signal Booster | Distance 4K2K Cable 65 feet (20M), 1080p Cable 98 feet (30M) |
| Infrared Frequency | 38 Khz |
| HDMI I/O Connector | HDMI Type A - SMD 19pin Female Type |
| Temperature | Operating Temperature 32°F - 100°F (0°C - 32°C) |
| Wall Mount | 1 inch High Wall Mount pairs (P/N: WM-1INCH-80mm) |
| Dimension (WxDxH) | 17.4" x 11.93" x 1.73" (442mm x 303mm x 44mm) |
| Power Supply | DC12V, Powr Input : AC 100~240 VAC 50/60Hz (universal Type Supply) |
| Safety Approvals | CE, FCC, REACH |
| Weight | 2.45 Kg / 5.4 lb |

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# SB-5608

8x1 HDMI ROUTING SWITCHER

Input : 8x HDMI
Output : 1x HDMI

SWITCHER

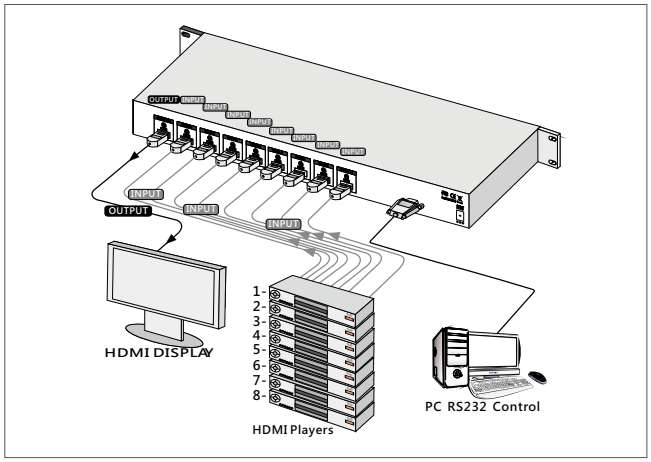
Ear Rack : 1U-440L



## INTRODUCTION

The SB-5608 is a competitive, high performance switcher designed for HDMI™ signal, Support Digital Video TMDS format and Digital Audio via HDMI™ connectors. Providing 8 inputs and 1 output. The Switcher support data rate up to 2.25Gbps. Also control any one of the 8 inputs to 1 output via press the selection buttons on the front panel.Control by selection buttons on the front panel, IR Remote controller and RS-232 via a PC. This product is certified, and fully HDMI™ and HDCP compliant. The product approved the CE & FCC compliants. Support high resolution 1080p quality HDMI™ sources to a HDMI™ display, Monitor or Projector.

## DIAGRAM TYPICAL




## FEATURES

01. Support 8:1 HDMI Switcher
02. Input: 8x HDMI
03. Output: 1x HDMI
04. Support HDMI Max Data Rate – 2.25Gbps
05. HDTV Compatible and HDCP compliant
06. Control by press buttons on the real panel
07. RS-232 serial port interface on the rear panel
08. IR transceiver on the front panel
09. Input status with LED display

## SPECIFICATIONS

| | |
|---|---|
| Type of Switcher | 8x1 HDMI Switcher |
| Type of Signal | TMDS Digital Video PCM Digital Audio |
| Compliant with HDMI standard | HDMI and HDCP |
| HDTV Support | 1080p HDMI formats and UXGA 1600x1200 |
| Data Rates | 250Mbps to 2.25 Gbps |
| Pixel clocks | 25MHz to 225 MHz |
| HDMI Cable Distance | 15 meters at 2.25Gbps |
| Infrared frequency | 38KHz |
| Controls | RS-232, IR, Select buttons on the front panel |
| Safety Approvals | CE, FCC, VCCI, REACH, Erp, WEEE |
| Dimension (WxDxH) | 17.41" x 7.87" x1.74" (442mm x 200mm x 44mm) |
| Weight | 2.45 Kg / 5.4lb |
| Power Supply | DC 12V / 2A Max<br>Use Universal Switch Type50/60Hz,100~240VAC |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# SB-5608K

8x2 HDMI Routing Switcher

PRO | EDID | SWITCHER | 4K2K-60Hz

Input : 8x HDMI
Output : 1x S/PDIF / HDMI / Stereo Audio (AR/AL)
Six(6) modules : HDMI+Audio, SDI+Audio, HDBaseT+Audio, IP+Audio, DTV COAX (Page 01-01)

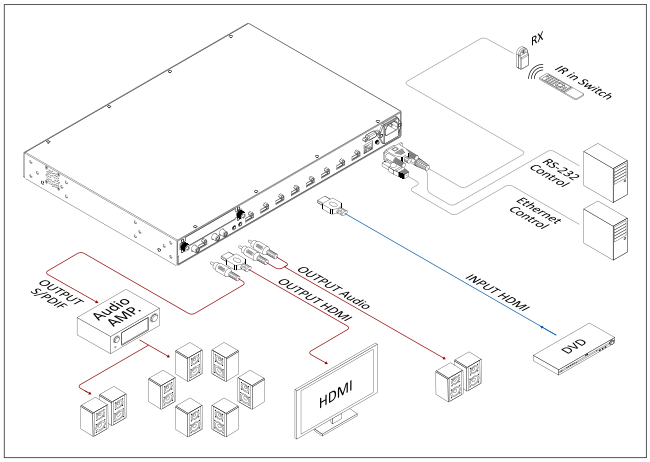
Ear Rack : 1U-440L



## INTRODUCTION

The SB-5608K is professional 8x1 4K2K HDMI™ Routing Switcher. Supporting eight (8) HDMI™ Inputs; and one (1) HDMI™, S/PDIF and Stereo Audio(AR/AL) Output. The SB-5608K is based on the HDMI™ UHD 4K2K and supports full resolution HDMI™ Video with a signal bandwidth of 340Mhz, there is no signal degradation. The Routing Switcher is certified as being fully CEC and HDCP 2.2 compliant, full UHD 4K2K HDMI™ 2.0 formats, data rates up to 6.75 Gbps. Supports UXGA /WUXGA / DVI 1920x1200 resolution to any HD displays. It supports cable distance up to 65 feet (20M) for 4K2K and 98 feet (30M) for 1080p. Volume and Balance control is available for analog audio output. Input status LED's indicate the presence of a live signal. Controls provided via Front panel push buttons, IR, RS-232 and Ethernet.

## DIAGRAM TYPICAL




## FEATURES

01. (8)x HDMI 4K2K source device routing switch to (1)x HDMI output 4K2K destinations
02. Link speeds of up to 6.75 Gbps (link clock rate of 340MbHz)
03. Support HDMI 2.0, HDCP 2.2
04. Wide range of HD resolutions from PC XGA to WUXGA 1920x1200 and HDTV/DTV HDMI resolutions 480i/480p, 576i/576p, 720p, 1080i/p & 4K2K-60Hz
05. Digital Video TMDS formats Resolution up to 4K2K with Deep color 12-bit
06. Volume and Balance control is available for analog audio output
07. The additional output module can be supported different various type of signal modules
08. Easily control via seventeen(17) fucntion control keys
09. Audio Input : Support HDMI standard multi-channel digital audio
10. Audio Output : Support HDMI standard multi-channel digital audio
11. User Interface controls: Front Panel push button, IR, RS-232 and Ethernet
12. Support HDMI Output with Booster function, Cable Distance 4K2K 65 feet (20M) & 1080p-60Hz 98 feet (30M)
13. Support Universal power adaptor Power input AC100V~AC240V, 50/60Hz
14. Wall mounted ear rack included

## SPECIFICATIONS

| | |
|---|---|
| Type of HDMI Switcher | 8x input To 1x Outputs HDMI Switcher |
| Input | 8x HDMI |
| Output | 1x HDMI, 1xS/PDIF, 1xAnalog Audio (AR/AL) |
| HDMI Support | HDMI 1080P, 4K2K-@60Hz, H12-bit Deep color |
| HDCP / CEC Support | HDCP 2.2 Compliant, CEC Compliant |
| Video Bandwidth | Double Data Rates: 340Mhz, Total 6.75Gbps bandwidth |
| Audio Frequency | 10Hz ~ 20KHz |
| Audio Volume Control | +0 ~ +100 levels (+6db) |
| Audio Balance Control | L= +0 ~ +50, R= +51 ~ +100 |
| Gain Error | ±0.05dB |
| THD+N | 0.0004% @ 20KHz |
| De-emphasis Error | ±0.05dB (FS=44.1KHz) |
| Dynamic range | 120dB |
| Fast setting time | 160nS |
| Harmonic Distortion | -88dB@0dB |
| Switch Controls | Front Panel, IR, RS-232 and Ethernet |
| HDMI Signal Booster | Distance 4K2K Cable 65 feet (20M), 1080p Cable 98 feet (30M) |
| Infrared Frequency | 38 Khz |
| HDMI I/O Connector | HDMI Type A - SMD 19pin Female Type |
| Temperature | Operating Temperature 32°F - 100°F (0°C - 32°C) |
| Wall Mount | 1 inch High Wall Mount pairs (P/N:WM-1INCH-80mm) |
| Dimension (WxDxH) | 17.4" x 11.93" x 1.73" (442mm x 303mm x 44mm) |
| Power Supply | DC12V, Powr Input : AC 100~240 VAC 50/60Hz (universal Type Supply) |
| Safety Approvals | CE, FCC, REACH |
| Weight | 2.45 Kg / 5.4 lb |

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# SB-5612

12x2 HDMI Routing Switcher

Input : 12x HDMI
Output : 2x HDMI

SWITCHER

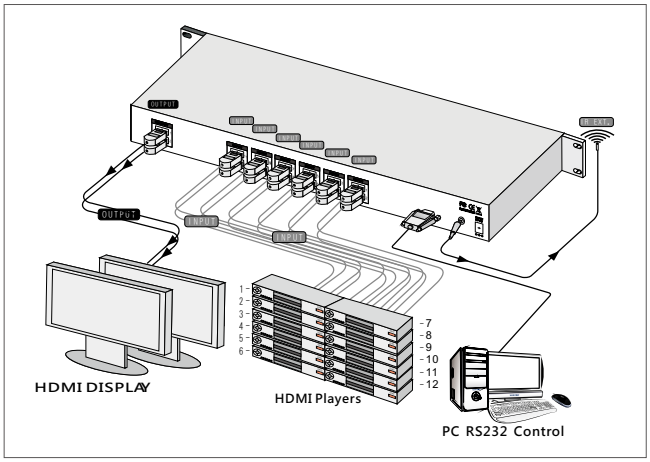
Ear Rack : 1U-440L



## INTRODUCTION

The SB-5612 is a competitive high performance 12 inputs to 2 outputs routing switcher. Designed for HDMI™ signal, Support Digital Video TMDS format and Digital Audio via HDMI™ 19 Pin connectors. This product is certified as being fully HDMI™ and HDCP 2.0 compliant. Providing 12 HDMI™ device inputs and 2 HDMI™ device outputs. The Switcher support HDMI™ 1.4a 3D formats the data rate up to 2.25Gbps. Also control any one of the 12 inputs to 2 outputs via press the selection buttons on the front panel. Control by selection buttons on the front panel, IR Remote controller and RS-232 via a PC. The product approved the CE & FCC compliants. Support high resolution 1080p quality HDMI™ sources to a HDMI™ display, monitor or projector.

## DIAGRAM TYPICAL




## FEATURES

01. Support 12 HDMI inputs to 2 HDMI outputs Routing Switcher
02. Input: 12x HDMI
03. Output: 2x HDMI
04. Support HDMI 1.4a 3D formats Max Data Rate 2.25Gbps
05. HDTV Compatible and HDCP 2.0 compliant
06. Control by press buttons on the front panel
07. Support the RS-232 serial port interface
08. Support IR transceiver on the front panel and IR External device connection
09. Input status with LED display

## SPECIFICATIONS

| | |
|---|---|
| Type of Switcher | 12x2 HDMI Routing Switcher |
| Type of Signal | TMDS Digital Video PCM Digital Audio |
| Compliant with HDMI standard | HDMI and HDCP 2.0 |
| HDTV Support | 1080p HDMI formats and UXGA 1600x1200 |
| Data Rates | Support 1.4a 3D formats, up to 2.25 Gbps |
| Pixel clocks | 225Mbps |
| HDMI Cable Distance | 15 meters (49 feet) |
| Infrared frequency | 38KHz |
| Controls | RS-232, IR, IR EXT,Select buttons(on the front panel) |
| Safety Approvals | CE, FCC, REACH |
| Dimension (WxDxH) | 17.32" x 7.87" x 1.74" (440mm x 200mm x 44mm) |
| Weight | 2.45 Kg / 5.4 lb |
| Power Supply | DC12V / 3A Max<br>Use Universal Switch Type 50/60Hz, 100~240VAC |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# SB-5612K

12x2 HDMI Routing Switcher

PRO | EDID | SWITCHER | 4K2K-60Hz

Input : 12x HDMI
Output : 1x S/PDIF / HDMI / Stereo Audio (AR/AL)
Six(6) modules : HDMI+Audio, SDI+Audio, HDBaseT+Audio, IP+Audio, DTV COAX (Page 01-01)

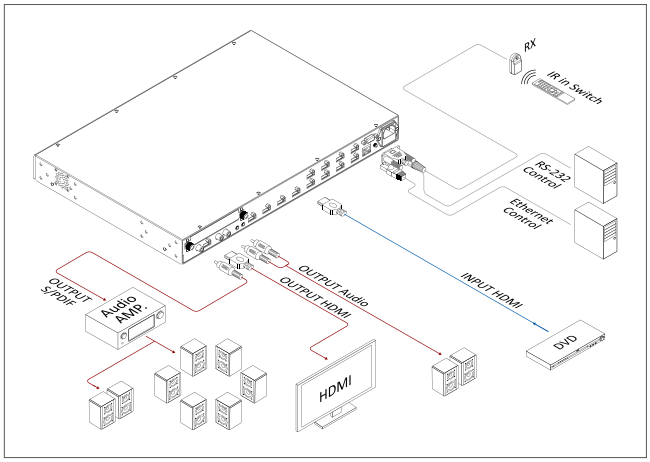
Ear Rack : 1U-440L



## INTRODUCTION

The SB-5612K is professional 12x1 4K2K HDMI™ Routing Switcher. Supporting eight (8) HDMI™ Inputs; and one (1) HDMI™, S/PDIF and Stereo Audio(AR/AL) Output. The SB-5612K is based on the HDMI™ UHD 4K2K and supports full resolution HDMI™ Video with a signal bandwidth of 340Mhz, there is no signal degradation. The Routing Switcher is certified as being fully CEC and HDCP 2.2 compliant, full UHD 4K2K HDMI™ 2.0 formats, data rates up to 6.75 Gbps. Supports UXGA/WUXGA/DVI 1920x1200 resolution to any HD displays. It supports cable distance up to 65 feet (20M) for 4K2K and 98 feet (30M) for 1080p. Volume and Balance control is available for analog audio output. Input status LED's indicate the presence of a live signal. Controls provided via Front panel push buttons, IR, RS-232 and Ethernet.

## DIAGRAM TYPICAL




## FEATURES

01. (12)x HDMI 4K2K source device routing switch to (1)x HDMI output 4K2K destinations
02. Link speeds of up to 6.75 Gbps (link clock rate of 340MbHz)
03. Support HDMI 2.0, HDCP 2.2
04. Wide range of HD resolutions from PC XGA to WUXGA 1920x1200 and HDTV/DTV HDMI resolutions 480i/480p, 576i/576p, 720p, 1080i/p & 4K2K-60Hz
05. Digital Video TMDS formats Resolution up to 4K2K with Deep color 12-bit
06. Volume and Balance control is available for analog audio output
07. The additional output module can be supported different various type of signal modules
08. Easily control via seventeen(17) fucntion control keys
09. Audio Input : Support HDMI standard multi-channel digital audio
10. Audio Output : Support HDMI standard multi-channel digital audio
11. User Interface controls: Front Panel push button, IR, RS-232 and Ethernet
12. Support HDMI Output with Booster function, Cable Distance 4K2K 65 feet (20M) & 1080p-60Hz 98 feet (30M)
13. Support Universal power adaptor Power input AC100V~AC240V, 50/60Hz
14. Wall mounted ear rack included

## SPECIFICATIONS

| | |
|---|---|
| Type of HDMI Switcher | 12x input To 1x Outputs HDMI Switcher |
| Input | 12x HDMI |
| Output | 1x HDMI, 1xS/PDIF, 1xAnalog Audio (AR/AL) |
| HDMI Support | HDMI 1080P, 4K2K-@60Hz, H12-bit Deep color |
| HDCP / CEC Support | HDCP 2.2 Compliant, CEC Compliant |
| Video Bandwidth | Double Data Rates : 340Mhz, Total 6.75Gbps bandwidth |
| Audio Frequency | 10Hz ~ 20KHz |
| Audio Volume Control | +0 ~ +100 levels (+6db) |
| Audio Balance Control | L= +0 ~ +50, R= +51 ~ +100 |
| Gain Error | ±0.05dB |
| THD+N | 0.0004% @ 20KHz |
| De-emphasis Error | ±0.05dB (FS=44.1KHz) |
| Dynamic range | 120dB |
| Fast setting time | 160nS |
| Harmonic Distortion | -88dB@0dB |
| Switch Controls | Front Panel, IR, RS-232 and Ethernet |
| HDMI Signal Booster | Distance 4K2K Cable 65 feet (20M), 1080p Cable 98 feet (30M) |
| Infrared Frequency | 38 Khz |
| HDMI I/O Connector | HDMI Type A - SMD 19pin Female Type |
| Temperature | Operating Temperature 32°F - 100°F (0°C - 32°C) |
| Wall Mount | 1 inch High Wall Mount pairs (P/N:WM-1INCH-80mm) |
| Dimension (WxDxH) | 17.4" x 11.93" x 1.73" (442mm x 303mm x 44mm) |
| Power Supply | DC12V, Powr Input : AC 100~240 VAC 50/60Hz (universal Type Supply) |
| Safety Approvals | CE, FCC, REACH |
| Weight | 2.45 Kg / 5.4 lb |

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# SB-5616

16x2 HDMI ROUTING SWITCHER

Input : 16x HDMI
Output : 2x HDMI

SWITCHER

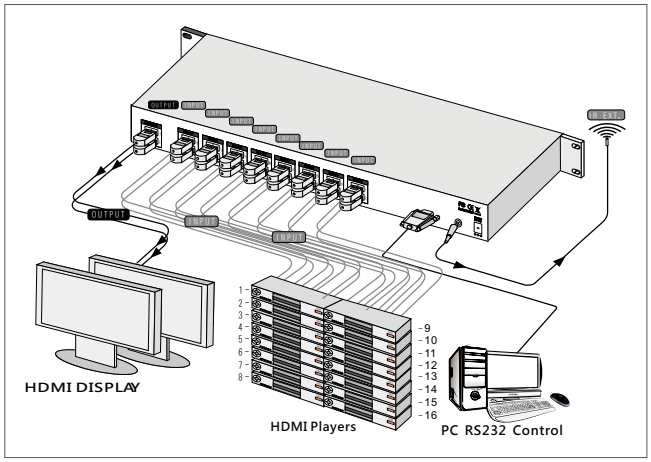
Ear Rack : 1U-440L



## INTRODUCTION

The SB-5616 is a competitive high performance 16 inputs to 2 outputs routing switcher. Designed for HDMI™ signal, Support Digital Video TMDS format and Digital Audio via HDMI™ 19 Pin connectors. This product is certified as being fully HDMI™ and HDCP 2.0 compliant. Providing 16 HDMI™ device inputs and 2 HDMI™ device outputs. The Switcher support HDMI™ 1.4a 3D formats the data rate up to 2.25Gbps. Also control any one of the 16 inputs to 2 outputs via press the selection buttons on the front panel. Control by selection buttons on the front panel, IR Remote controller and RS-232 via a PC. The product approved the CE & FCC compliants. Support high resolution 1080p quality HDMI™ sources to a HDMI™ display, monitor or projector.

## DIAGRAM TYPICAL




## FEATURES

01. Support 16 HDMI inputs to 2 HDMI outputs Routing Switcher
02. Input : 16x HDMI
03. Output : 2x HDMI
04. Support HDMI 1.4a 3D formats Max Data Rate 2.25Gbps
05. HDTV Compatible and HDCP 2.0 compliant
06. Control by press buttons on the front panel
07. Support the RS-232 serial port interface
08. Support IR transceiver on the front panel and IR External device connection
09. Input status with LED display

## SPECIFICATIONS

| | |
|---|---|
| Type of Switcher | 16x2 HDMI Routing Switcher |
| Type of Signal | TMDS Digital Video PCM Digital Audio |
| Compliant with HDMI standard | HDMI and HDCP 2.0 |
| HDTV Support | 1080p HDMI formats and UXGA 1600x1200 |
| Data Rates | Support 1.4a 3D formats, up to 2.25 Gbps |
| Pixel clocks | 225Mbps |
| HDMI Cable Distance | 15 meters (49 feet) |
| Infrared frequency | 38KHz |
| Controls | RS-232, IR, IR EXT, Select buttons (on the front panel) |
| Safety Approvals | CE, FCC, REACH |
| Dimension (WxDxH) | 17.32" x 7.87" x 1.74" (440mm x 200mm x 44mm) |
| Weight | 2.45 Kg / 5.4 lb |
| Power Supply | DC12V / 3A Max<br>Use Universal Switch Type 50/60Hz, 100~240VAC |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# SB-5616K

16x2 HDMI Routing Switcher

PRO | EDID | SWITCHER | 4K2K-60Hz

Input : 12x HDMI
Output : 1x S/PDIF / HDMI / Stereo Audio (AR/AL)
Six(6) modules : HDMI+Audio, SDI+Audio, HDBaseT+Audio, IP+Audio, DTV COAX (Page 01-01)

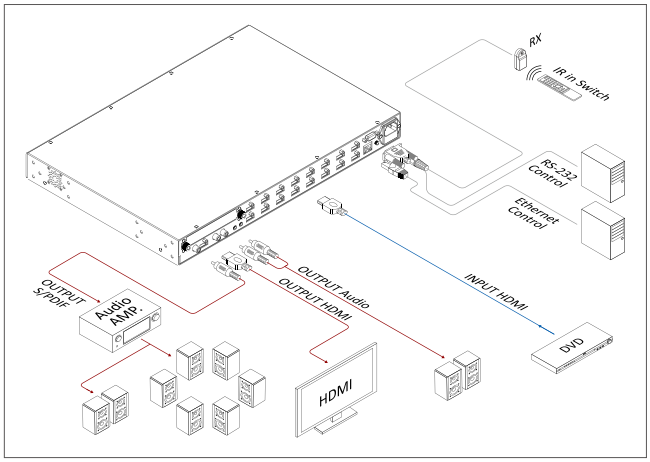
Ear Rack : 1U-440L



## INTRODUCTION

The SB-5616K is professional 16x1 4K2K HDMI™ Routing Switcher. Supporting eight (8) HDMI™ Inputs; and one (1) HDMI™, S/PDIF and Stereo Audio(AR/AL) Output. The SB-5616K is based on the HDMI™ UHD 4K2K and supports full resolution HDMI™ Video with a signal bandwidth of 340Mhz, there is no signal degradation. The Routing Switcher is certified as being fully CEC and HDCP 2.2 compliant, full UHD 4K2K HDMI™ 2.0 formats, data rates up to 6.75 Gbps. Supports UXGA / WUXGA / DVI 1920x1200 resolution to any HD displays. It supports cable distance up to 65 feet (20M) for 4K2K and 98 feet (30M) for 1080p. Volume and Balance control is available for analog audio output. Input status LED's indicate the presence of a live signal. Controls provided via Front panel push buttons, IR, RS-232 and Ethernet.

## DIAGRAM TYPICAL




## FEATURES

01. (16)x HDMI 4K2K source device routing switch to (1)x HDMI output 4K2K destinations
02. Link speeds of up to 6.75 Gbps (link clock rate of 340MbHz)
03. Support HDMI 2.0, HDCP 2.2
04. Wide range of HD resolutions from PC XGA to WUXGA 1920x1200 and HDTV/DTV HDMI resolutions 480i/480p, 576i/576p, 720p, 1080i/p & 4K2K-60Hz
05. Digital Video TMDS formats Resolution up to 4K2K with Deep color 12-bit
06. Volume and Balance control is available for analog audio output
07. The additional output module can be supported different various type of signal modules
08. Easily control via seventeen(17) fucntion control keys
09. Audio Input : Support HDMI standard multi-channel digital audio
10. Audio Output : Support HDMI standard multi-channel digital audio
11. User Interface controls: Front Panel push button, IR, RS-232 and Ethernet
12. Support HDMI Output with Booster function, Cable Distance 4K2K 65 feet (20M) & 1080p-60Hz 98 feet (30M)
13. Support Universal power adaptor Power input AC100V~AC240V, 50/60Hz
14. Wall mounted ear rack included

## SPECIFICATIONS

| | |
|---|---|
| Type of HDMI Switcher | 16x input To 1x Outputs HDMI Switcher |
| Input | 16x HDMI |
| Output | 1x HDMI, 1xS/PDIF, 1xAnalog Audio (AR/AL) |
| HDMI Support | HDMI 1080P, 4K2K-@60Hz, H12-bit Deep color |
| HDCP / CEC Support | HDCP 2.2 Compliant, CEC Compliant |
| Video Bandwidth | Double Data Rates : 340Mhz, Total 6.75Gbps bandwidth |
| Audio Frequency | 10Hz ~ 20KHz |
| Audio Volume Control | +0 ~ +100 levels (+6db) |
| Audio Balance Control | L= +0 ~ +50, R= +51 ~ +100 |
| Gain Error | ±0.05dB |
| THD+N | 0.0004% @ 20KHz |
| De-emphasis Error | ±0.05dB (FS=44.1KHz) |
| Dynamic range | 120dB |
| Fast setting time | 160nS |
| Harmonic Distortion | -88dB@0dB |
| Switch Controls | Front Panel, IR, RS-232 and Ethernet |
| HDMI Signal Booster | Distance 4K2K Cable 65 feet (20M), 1080p Cable 98 feet (30M) |
| Infrared Frequency | 38 Khz |
| HDMI I/O Connector | HDMI Type A - SMD 19pin Female Type |
| Temperature | Operating Temperature 32°F - 100°F (0°C - 32°C) |
| Wall Mount | 1 inch High Wall Mount pairs (P/N:WM-1INCH-80mm) |
| Dimension (WxDxH) | 17.4" x 11.93" x 1.73" (442mm x 303mm x 44mm) |
| Power Supply | DC12V, Powr Input : AC 100~240 VAC 50/60Hz (universal Type Supply) |
| Safety Approvals | CE, FCC, REACH |
| Weight | 2.45 Kg / 5.4 lb |

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# SB-5642LCM

4x2 HDMI Matrix Switcher

Input : 4x HDMI
Output : 2x HDMI

PRO MATRIX SWITCHER

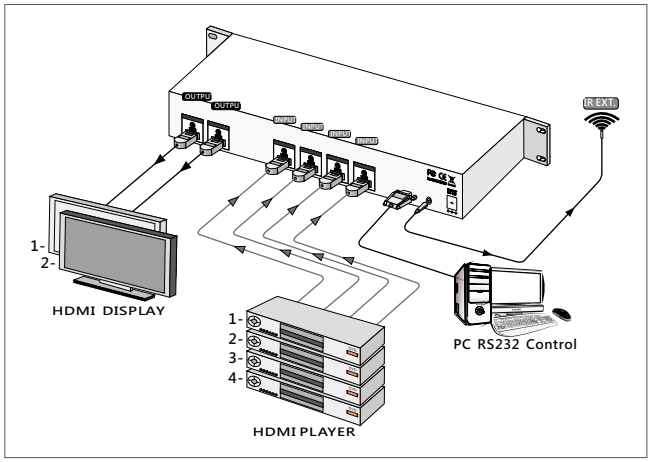
Ear Rack : 1U-440L



## INTRODUCTION

The SB-5642LCM is high-performance 4x2 matrix routing switcher for HDMI™ signals. This switcher supports data rates up to 2.25 Gbps, enabling 1080p HDMI™ formats and UXGA / WUXGA / DVI resolution to any HD displays. High Definition Digital signals can be selected and distributed to any outputs simultaneously. The Switcher is certified and fully HDMI™ and HDCP compliant, with CE,FCC certification. Support high resolution HDMI™ sources routed to HDMI™ displays, monitors, projector or audio receivers. The EDID can be selected between seven (7) different modes and learning mode. Control is provided via front panel push buttons, IR remote or via RS-232. A RS-232 Windows GUI interface is provided for matrix routing.

## DIAGRAM TYPICAL




## FEATURES

01. Support (4)x HDMI digital source devices Matrix switched to (2)x HDMI destinations
02. HDMI Digital video/multi-channel audio format, DVI 1.0 format and HDCP 1.3 compliant
03. Support HDMI/DVI high definition resolutions 408p, 720p, 1080i/1080p up to 36 bit, 3D formats
04. Support link speeds of up to 2.25 Gbps (link clock rate of 250 MHZ)
05. Wide range of HD resolutions from PC XGA to WUXGA 1920x1200 and HDTV/DTV HDMI resolutions 480i/480p, 576i/576p, 720p, 1080i/p
06. Audio Supports Dolby TrueHD, Dolby Digital, Dolby Digital Plug/ex, DTS, DTS-HD, DTS-HD Master, DTS-EX, PCM, PCM2, LPCM2.
07. Support IR Remote and IR Extender with distance 300M Maximum
08. Various User Interface controls :
    - Windows based GUI control via RS-232 port
    - Front Panel push buttons
    - IR wireless remote controller
    - IR External port (Switch Control)
    - Third party RS-232 controller (via simple ASCII)
09. Compatible with full HD high resolution Video player device and LCD / Plasma monitor displays or Projector
10. Direct selection and confirm via Front push buttons with LED readout
11. Infrared : IR remote control (38KHz)
12. Support world wide eight (8) select embedded EDID modes
13. Support seven (7) control function key :
    ALL / OFF / RECALL / ENTER / MEMORY / LOCK / EDID
14. Support RS-232 interface control AP driver for PC 95/98/2000/xp/7/8
    A Windows-based control software Driver packaged
15. Support desktop with Ear mount and 19 inch 1U Rack mountable type panel
16. Support Lower power consumed full load under 1800 mA
17. Power supply DC12Volt, Universal Type Switch 100~240VAC, 50/60Hz

## SPECIFICATIONS

| | |
|---|---|
| Type of HDMI Switcher | (4)x inputs To (2)x Outputs HDMI Matrix Switcher |
| HDMI Support | HDMI Video 0.5~1Vpp, DDC5Vpp, HDMI V1.4a, 3D formats |
| HDCP / CEC Support | HDCP 1.3 Compliant, CEC Compliant |
| Video Bandwidth | Double Data Rates: 250Mhz, Total 2.25Gbps bandwidth |
| Digital Video Support | HD:480i/480p/720p/1080i/p up to 36bit deep color |
| Input | (4)x HDMI (HDMI or DVI digital source) |
| Output | (2)x HDMI (To 2x Destinations) |
| Switch Controls | 1x Select & Function buttons on front panel (Data status via LED panel readout)<br>1x IR Remote Controller (switch control)<br>1x IR External port (switch control via 3.5mm OD Jack)<br>1x RS 232 series interface (switch control) |
| Source Status | Input status LEDs indicates presence of a live signal |
| (13) Function Control Keys | 1.ALL, 2.OFF, 3.RECALL, 4.ENTER, 5.MEMORY, 6.LOCK, 7.EDID, 8.Destination button (1) thru (2), 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) |
| Dimension (WxDxH) | 19" x 7.87" x 1.73" (482mm x 200mm x 44mm) |
| Rack Mount | 1RU High 19 "Rack Mount #1U-440L (with rack mount) |
| Power Supply | DC12V, 3A, Powr Input : AC 100~240 VAC 50/60Hz (universal Type Supply) |
| Safety Approvals | CE, FCC, REACH |
| Weight | 1.85 Kg / 4.07 lb |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# SB-5642K

4x2 HDMI Matrix Switcher

Input : 4x HDMI
Output : 2x HDMI

PRO | MATRIX | SWITCHER | 4K2K-60Hz

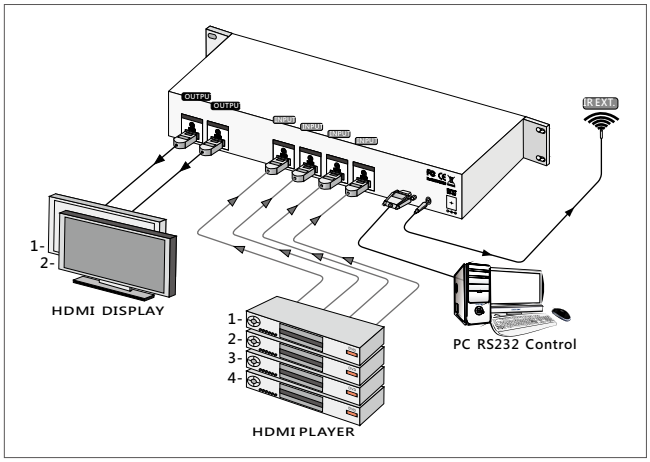
Ear Rack : 1U-440L



## INTRODUCTION

The SB-5642LCM is high-performance 4x2 matrix routing switcher for HDMI™ signals. This switcher supports data rates up to 6.75 Gbps, enabling 4K2K-60Hz HDMI™ formats and UXGA / WUXGA / DVI resolution to any HD displays. High Definition Digital signals can be selected and distributed to any outputs simultaneously. The Switcher is certified and fully HDMI™ V2.0 and HDCP 2.2 compliant, with CE,FCC certification. Support high resolution HDMI™ sources routed to HDMI™ displays, monitors, projector or audio receivers. The EDID can be selected between seven (7) different modes and learning mode. Control is provided via front panel push buttons, IR remote or via RS-232. A RS-232 Windows GUI interface is provided for matrix routing.

## DIAGRAM TYPICAL




## FEATURES

01. Support (4)x HDMI digital source devices Matrix switched to (2)x HDMI destinations
02. HDMI Digital video/multi-channel audio format, DVI 1.0 format and HDCP 2.2 compliant
03. Support HDMI/DVI high definition resolutions 408p, 720p, 1080i/1080p up to 4K2K
04. Support link speeds of up to 6.75 Gbps (link clock rate of 340 MHZ)
05. Wide range of HD resolutions from PC XGA to WUXGA 1920x1200 and HDTV/DTV HDMI resolutions 480i/480p, 576i/576p, 720p, 1080i/p, 4K2K-60Hz
06. Audio Supports Dolby TrueHD, Dolby Digital, Dolby Digital Plug/ex, DTS, DTS-HD, DTS-HD Master, DTS-EX, PCM, PCM2, LPCM2
07. Support IR Remote and IR Extender with distance 300M Maximum
08. Various User Interface controls :
    - Windows based GUI control via RS-232 port
    - Front Panel push buttons
    - IR wireless remote controller
    - IR External port (Switch Control)
    - Third party RS-232 controller (via simple ASCII)
09. Compatible with full HD high resolution Video player device and LCD / Plasma monitor displays or Projector
10. Direct selection and confirm via Front push buttons with LED readout
11. Infrared : IR remote control (38KHz)
12. Support world wide seven (7) select embedded EDID modes
13. Support seven (7) control function key :
    ALL / OFF / RECALL / ENTER / MEMORY / LOCK / EDID
14. Support RS-232 interface control AP driver for PC 95/98/2000/xp/7/8
    A Windows-based control software Driver packaged
15. Support desktop with Ear mount and 19 inch 1U Rack mountable type panel
16. Support Lower power consumed full load under 1800 mA
17. Power supply DC12Volt, Universal Type Switch 100~240VAC, 50/60Hz

## SPECIFICATIONS

| | |
|---|---|
| Type of HDMI Switcher | (4)x inputs To (2)x Outputs HDMI Matrix Switcher |
| HDMI Support | HDMI 1080P, 4K2K-@60Hz, 36-bit Deep color, HDMI V2.0 format |
| HDCP / CEC Support | HDCP 2.2 Compliant, CEC Compliant |
| Video Bandwidth | Double Data Rates:340Mhz, Total 6.75 Gbps bandwidth |
| Input | (4)x HDMI (HDMI or DVI digital source) |
| Output | (2)x HDMI (To 2x Destinations) |
| Switch Controls | 1x Select & Function buttons on front panel (Data status via LED panel readout)<br>1x IR Remote Controller (switch control)<br>1x IR External port (switch control via 3.5mm OD Jack)<br>1x RS 232 series interface (switch control) |
| Source Status | Input status LEDs indicates presence of a live signal |
| (13) Function Control Keys | 1.ALL, 2.OFF, 3.RECALL, 4.ENTER, 5.MEMORY, 6.LOCK, 7.EDID, 8.Destination button (1) thru (2), 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) |
| Dimension (WxDxH) | 19" x 7.87" x 1.73" (482mm x 200mm x 44mm) |
| Rack Mount | 1RU High 19" Rack Mount #1U-440L (with rack mount) |
| Power Supply | DC12V, 3A, Powr Input : AC 100~240 VAC 50/60Hz (universal Type Supply) |
| Safety Approvals | CE, FCC, REACH |
| Weight | 1.85 Kg / 4.07 lb |

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# SB-5645LCM

4x4 HDMI Matrix Switcher

Input : 4x HDMI
Output : 4x HDMI

PRO MATRIX SWITCHER

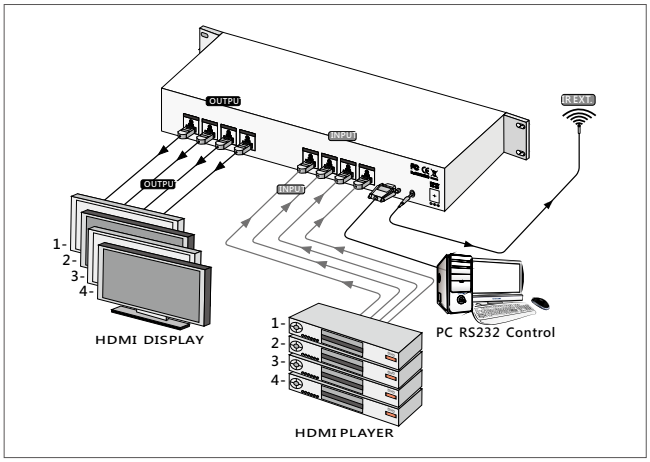
Ear Rack : 1U-440L



## INTRODUCTION

The SB-5645LCM is high-performance 4x4 matrix routing switcher for HDMI™ signals. This switcher supports data rates up to 2.25 Gbps, enabling 1080p, HDMI™ formats and UXGA/WUXGA/DVI resolution to any HD displays. High Definition Digital signals can be selected and distributed to any 4 outputs simultaneously. The Switcher is certified as being fully HDMI™ and HDCP compliant, with CE,FCC certification. Support high resolution HDMI™ sources routed to HDMI™ displays, monitors, projector or audio receivers. The EDID can be selected between seven (7) different modes and learning mode. Control is provided via Front panel push buttons, IR remote or via RS-232. An RS-232 Windows GUI interface is provided for matrix routing.

## DIAGRAM TYPICAL




## FEATURES

01. Support (4)x HDMI digital source devices Matrix switched to (4)x HDMI destinations
02. HDMI Digital video/multi-channel audio format, DVI 1.0 format and HDCP 1.3 compliant
03. Support HDMI/DVI high definition resolutions 408p, 720p, 1080i/1080p up to 36 bit, 3D formats
04. Support link speeds of up to 2.25 Gbps (link clock rate of 250 MHZ)
05. Wide range of HD resolutions from PC XGA to WUXGA 1920x1200 and HDTV/DTV HDMI resolutions 480i/480p, 576i/576p, 720p, 1080i/p
06. Audio Supports Dolby TrueHD, Dolby Digital, Dolby Digital Plug/ex, DTS, DTS-HD, DTS-HD Master, DTS-EX, PCM, PCM2, LPCM2.
07. Support IR Remote and IR Extender with distance 300M Maximum
08. Various User Interface controls :
    - Windows based GUI control via RS-232 port
    - Front Panel push buttons
    - IR wireless remote controller
    - IR External port (Switch Control)
    - Third party RS-232 controller (via simple ASCII)
09. Compatible with full HD high resolution Video player device and LCD / Plasma monitor displays or Projector
10. Direct selection and confirm via Front push buttons with LED readout
11. Infrared : IR remote control (38KHz)
12. Support world wide seven (7) select embedded EDID modes
13. Support seven (7) control function key :
    ALL / OFF / RECALL / ENTER / MEMORY / LOCK / EDID
14. Support RS-232 interface control AP driver for PC 95/98/2000/xp/7/8
    A Windows-based control software Driver packaged
15. Support desktop with Ear mount and 19 inch 1U Rack mountable type panel
16. Support Lower power consumed full load under 2450 mA
17. Power supply DC12Volt, Universal Type Switch 100~240VAC, 50/60Hz

## SPECIFICATIONS

| | |
|---|---|
| Type of HDMI Switcher | (4)x inputs To (4)x Outputs HDMI Matrix Switcher |
| HDMI Support | HDMI 1080P-60Hz, 36-bit Deep color,<br>HDMI V1.4a 3D formats |
| HDCP / CEC Support | HDCP 1.3 Compliant, CEC Compliant |
| Video Bandwidth | Double Data Rates: 250Mhz, Total 2.25Gbps bandwidth |
| Input | (4)x HDMI (HDMI or DVI digital source) |
| Output | (4)x HDMI (To 4x Destinations) |
| Switch Controls | 1x Select & Function buttons on front panel<br>(Data status via LED panel readout)<br>1x IR Remote Controller (switch control)<br>1x IR External port (switch control via 3.5mm OD Jack)<br>1x RS 232 series interface (switch control) |
| Source Status | Input status LEDs indicates presence of a live signal |
| (15) Function Control Keys | 1.ALL, 2.OFF, 3.RECALL, 4.ENTER, 5.MEMORY, 6.LOCK, 7.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) |
| Dimension (WxDxH) | 19" x 7.87" x 1.73" (482mm x 200mm x 44mm) |
| Rack Mount | 1RU High 19" Rack Mount #1U-440L (with rack mount) |
| Power Supply | DC12V, 3A, Powr Input : AC 100~240 VAC 50/60Hz (universal Type Supply) |
| Safety Approvals | CE, FCC, REACH |
| Weight | 2.25 Kg / 4.95 lb |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# SB-5645K

4x4 HDMI Matrix Switcher

Input : 4x HDMI
Output : 4x HDMI

PRO | MATRIX | SWITCHER | 4K2K-60Hz

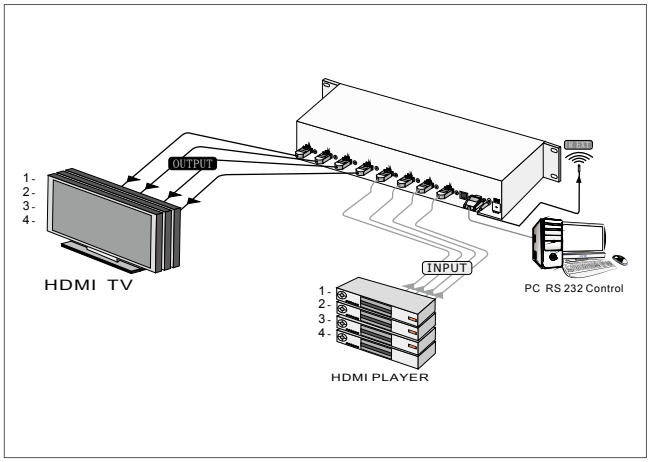
Ear Rack : 1U-440L



## INTRODUCTION

The SB-5645K is high-performance 4x4 matrix routing switcher for HDMI™ signals. This switcher supports data rates up to 6.75 Gbps, enabling 4K2K-60Hz HDMI™ formats and UXGA/WUXGA/DVI resolution to any HD displays. High Definition Digital signals can be selected and distributed to any 4 outputs simultaneously. The Switcher is certified as being fully HDMI™ V2.0 and HDCP 2.2 compliant, with CE,FCC certification. Support high resolution HDMI™ sources routed to HDMI™ displays, monitors, projector or audio receivers. The EDID can be selected between seven (7) different modes and learning mode. Control is provided via Front panel push buttons, IR remote or via RS-232. An RS-232 Windows GUI interface is provided for matrix routing.

## DIAGRAM TYPICAL




## FEATURES

01. Support (4)x HDMI digital source devices Matrix switched to (4)x HDMI destinations
02. HDMI Digital video/multi-channel audio format, DVI 1.0 format and HDCP 2.2 compliant
03. Support HDMI/DVI high definition resolutions 408p, 720p, 1080i/1080p up to 4K2K formats
04. Support link speeds of up to 6.75 Gbps (link clock rate of 340 MHZ)
05. Wide range of HD resolutions from PC XGA to WUXGA 1920x1200 and HDTV/DTV HDMI resolutions 480i/480p, 576i/576p, 720p, 1080i/p, 4K2K
06. Audio Supports Dolby TrueHD, Dolby Digital, Dolby Digital Plug/ex, DTS, DTS-HD, DTS-HD Master, DTS-EX, PCM, PCM2, LPCM2
07. Support IR Remote and IR Extender with distance 300M Maximum
08. Various User Interface controls :
    - Windows based GUI control via RS-232 port
    - Front Panel push buttons
    - IR wireless remote controller
    - IR External port (Switch Control)
    - Third party RS-232 controller (via simple ASCII)
09. Compatible with full HD high resolution Video player device and LCD / Plasma monitor displays or Projector
10. Direct selection and confirm via Front push buttons with LED readout
11. Infrared : IR remote control (38KHz)
12. Support world wide seven (7) select embedded EDID modes
13. Support seven (7) control function key : ALL / OFF / RECALL / ENTER / MEMORY / LOCK / EDID
14. Support RS-232 interface control AP driver for PC 95/98/2000/xp/7/8 A Windows-based control software Driver packaged
15. Support desktop with Ear mount and 19 inch 1U Rack mountable type panel
16. Support Lower power consumed full load under 2450 mA
17. Power supply DC12Volt, Universal Type Switch 100~240VAC, 50/60Hz

## SPECIFICATIONS

| | |
|---|---|
| Type of HDMI Switcher | (4)x inputs To (4)x Outputs HDMI Matrix Switcher |
| HDMI Support | HDMI 1080P, 4K2K-@60Hz, 36-bit Deep color, HDMI V2.0 format |
| 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 up to 36bit deep color |
| Input | (4)x HDMI (HDMI or DVI digital source) |
| Output | (4)x HDMI (To 4x Destinations) |
| Switch Controls | 1x Select & Function buttons on front panel (Data status via LED panel readout)<br>1x IR Remote Controller (switch control)<br>1x IR External port (switch control via 3.5mm OD Jack)<br>1x RS 232 series interface (switch control) |
| Source Status | Input status LEDs indicates presence of a live signal |
| (15) Function Control Keys | 1.ALL, 2.OFF, 3.RECALL, 4.ENTER, 5.MEMORY, 6.LOCK, 7.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) |
| Dimension (WxDxH) | 19" x 7.87" x 1.73" (482mm x 200mm x 44mm) |
| Rack Mount | 1RU High 19" Rack Mount #1U-440L (with rack mount) |
| Power Supply | DC12V, 3A, Powr Input : AC 100~240 VAC 50/60Hz (universal Type Supply) |
| Safety Approvals | CE, FCC, REACH |
| Weight | 2.25 Kg / 4.95 lb |

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# SB-5645AK

4x4 HDMI Matrix Switch with Auxiliary Audio

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

S/PDIF | ARC | AUXILIARY | PRO | MATRIX | SWITCHER

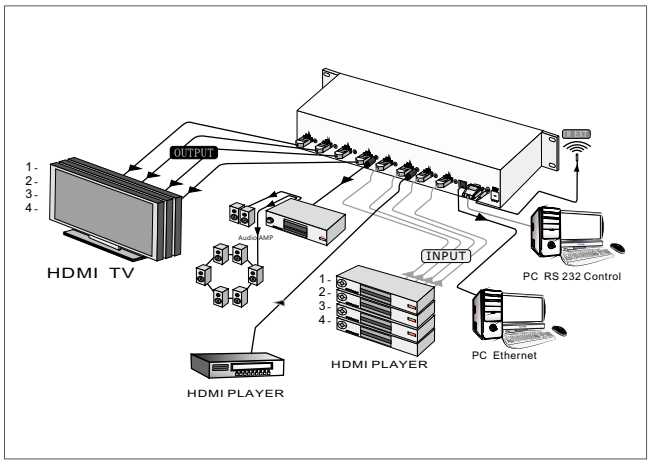
Ear Rack : 1U-440L



## 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

01. Four (4)x HDMI with Auxiliary Audio (Analog Audio) source devices matrix switched to Four (4)x HDMI with S/PDIF output destinations.
02. HDMI digital Video w/embedded HDCP, DVI format and CEC/HDCP 1.3 compliant
03. Worldwide control EDID modes for HDMI full 4K2K (24/30 Hz) HD Video resolutions
04. Link speeds of up to 6.75 Gbps (link clock rate of 340MbHz), Support HDMI 4K2K, 1.4a 3D formats
05. 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)
06. Digital Video TMDS formats Resolution up to 4K2K with Deep color 36-bit.
07. Digital Audio Support : - Dolby TrueHD
    - Dolby Digital
    - Dolby Digital Plug/ex
    - DTS
    - DTS-HD
    - DTS-HD Master
    - DTS-EX
    - PCM, PCM2, LPCM2
08. Audio Input : Support Auxiliary Audio (Analog stereo audio)
09. Audio Output : Support Digital audio ARC or Digital audio S/PDIF (from HDMI source or Auxiliary Audio)
10. 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)
11. Support world wide (9)x control function keys :
    Full function front panel controls :
    ARC / AUX/ ALL / OFF / EDID / LOCK / RECALL / MEMORY / ENTER
12. Supports seven (7) worldwide standard embedded EDID modes
13. Automatic scanning input & output status via LCM show on front panel
14. Support IR Remote and IR Extender with distance up to ~ 984 feet (300M) Maximum
15. 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,<br>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<br>4x ARC:TV Return Channel Audio.<br>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)<br>1x IR Remote Controller (switch control)<br>1x IR External port (switch control via 3.5mm OD Jack)<br>1x RS 232 series interface (switch control)<br>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) |
| Dimension (WxDxH) | 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, Powr Input : AC 100~240 VAC 50/60Hz (universal Type Supply) |
| Safety Approvals | CE, FCC, REACH |
| Weight | 2.15 Kg / 3.58 lb |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# 4x4 Matrix Switch with Auxiliary Audio

Office

Restaurant

Home Theater

Hotel

Airport

School

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# SB-5648LCM

4x8 HDMI Matrix Switcher

Input : 4x HDMI
Output : 8x HDMI + 1 Preview port

PRO MATRIX SWITCHER

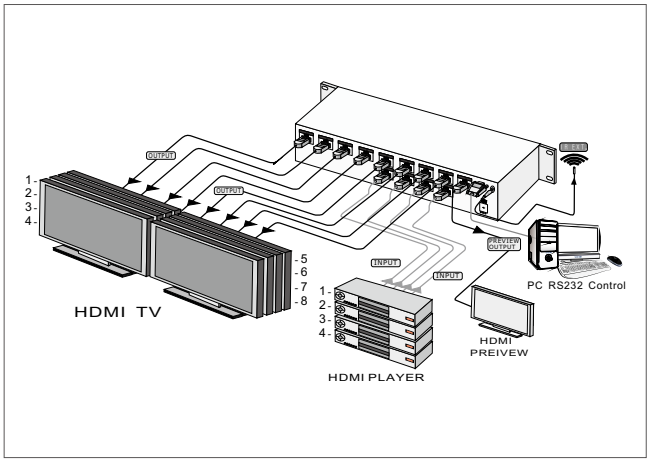
Ear Rack : 1U-440L



## INTRODUCTION

The SB-5648LCM is high-performance 4x8 matrix routing switcher for HDMI™ signals. This switcher supports data rates up to 2.25 Gbps, enabling 1080p HDMI™ formats and UXGA / WUXGA / DVI resolution to any HD displays. High Definition Digital signals can be selected and distributed to any 8 outputs simultaneously. The Switcher is certified as being fully HDMI™ and HDCP compliant, with CE, FCC, REACH certification. Support high resolution HDMI™ sources routed to HDMI™ displays, monitors,projector or audio receivers. The EDID can be selected between seven (7) different modes and learning mode. Control is provided via Front panel push buttons, IR remote or via RS-232. An RS-232 Windows GUI interface is provided for matrix routing. RS-232 or TCP/IP (not a web browser).

## DIAGRAM TYPICAL




## FEATURES

01. Support (4)x HDMI digital source devices Matrix switched to (8)x HDMI destinations
02. HDMI Digital video/multi-channel audio format, DVI 1.0 format and HDCP 1.3 compliant
03. Support HDMI/DVI high definition resolutions 408p, 720p, 1080i/1080p up to 36 bit, 3D formats
04. Support link speeds of up to 2.25 Gbps (link clock rate of 250 MHZ)
05. Wide range of HD resolutions from PC XGA to WUXGA 1920x1200 and HDTV/DTV HDMI resolutions 480i/480p, 576i/576p, 720p, 1080i/p
06. Support (1) Preview output, Signal as output #1 simultaneously
07. Audio Supports Dolby TrueHD, Dolby Digital, Dolby Digital Plug/ex, DTS, DTS-HD, DTS-HD Master, DTS-EX, PCM, PCM2, LPCM2
08. Support IR Remote and IR Extender with distance 300M Maximum
09. Various User Interface controls :
    - Windows based GUI control via RS-232 port
    - Front Panel push buttons
    - IR wireless remote controller
    - IR External port (Switch Control)
    - Ethernet serial interface (Switch Control)
    - Third party RS-232 controller (via simple ASCII)
10. Compatible with full HD high resolution Video player device and LCD/ Prasma monitor displays or Projector
11. Direct selection and confirm via Front push buttons with LED readout
12. Infrared : IR remote control (38KHz)
13. Support world wide seven (7) select embedded EDID modes
14. Support seven (7) control function key :
    ALL / OFF / RECALL / ENTER / MEMORY / LOCK / EDID
15. Support RS-232 interface control AP driver for PC 95/98/2000/xp/7/8
    A Windows-based control software Driver packaged
16. Support desktop with Ear mount and 19 inch 1U Rack mountable type panel
17. Support Lower power consumed full load under 3880 mA
18. Power supply DC12Volt, Universal Type Switch 100~240VAC, 50/60Hz

## SPECIFICATIONS

| | |
|---|---|
| Type of HDMI Switcher | (4)x inputs To (8)x Outputs HDMI Matrix Switcher |
| HDMI Support | HDMI 1080P-60Hz, 36-bit Deep color,<br>HDMI V1.4a 3D formats |
| HDCP / CEC Support | HDCP 1.3 Compliant, CEC Compliant |
| Video Bandwidth | Double Data Rates:250Mhz, Total 2.25Gbps bandwidth |
| Input | (4)x HDMI (HDMI or DVI digital source) |
| Output | (8)x HDMI (To 8x Destinations)<br>(1)x HDMI (Preview output:Signal as output #1 simultaneously) |
| Switch Controls | 1x Select & Function buttons on front panel<br>(Data status via LED panel readout)<br>1x IR Remote Controller (switch control)<br>1x IR External port (switch control via 3.5mm OD Jack)<br>1x Ethernet serial interface (RJ-45 8p8c female socket)<br>1x RS 232 series interface (switch control) |
| Source Status | Input status LEDs indicates presence of a live signal |
| (19) Function Control Keys | 1.ALL, 2.OFF, 3.RECALL, 4.ENTER, 5.MEMORY, 6.LOCK, 7.EDID, 8.Destination button (1) thru (8), 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 19" pin Female Type |
| Temperature | Operating Temperature 32°F - 100°F (0°C - 32°C) |
| Dimension (WxDxH) | 19" x 9.84" x 1.73" (482mm x 250mm x 44mm) |
| Rack Mount | 1RU High 19 "Rack Mount #1U-440L (with rack mount) |
| Power Supply | DC12V, 5A, Powr Input : AC 100~240 VAC 50/60Hz (universal Type Supply) |
| Safety Approvals | CE, FCC, REACH |
| Weight | 3.45 Kg / 7.59 lb |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# SB-5648K

4x8 HDMI Matrix Switcher

Input : 4x HDMI
Output : 8x HDMI + 1 Preview port

PRO | MATRIX | SWITCHER | 4K2K-60Hz

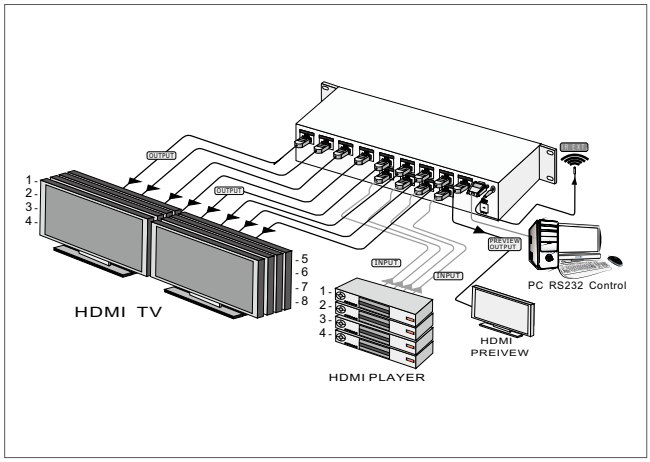
Ear Rack : 1U-440L



## INTRODUCTION

The SB-5648K is high-performance 4x8 matrix routing switcher for HDMI™ signals. This switcher supports data rates up to 6.75 Gbps, enabling 4K2K-60Hz HDMI™ formats and UXGA/WUXGA/DVI resolution to any HD displays. High Definition Digital signals can be selected and distributed to any 4 outputs simultaneously. The Switcher is certified as being fully HDMI™ V2.0 and HDCP 2.2 compliant, with CE,FCC certification. Support high resolution HDMI™ sources routed to HDMI™ displays, monitors, projector or audio receivers. The EDID can be selected between seven (7) different modes and learning mode. Control is provided via Front panel push buttons, IR remote or via RS-232. An RS-232 Windows GUI interface is provided for matrix routing.

## DIAGRAM TYPICAL




## FEATURES

01. Support (4)x HDMI digital source devices Matrix switched to (8)x HDMI destinations
02. HDMI Digital video/multi-channel audio format, DVI 1.0 format and HDCP 2.0 compliant
03. Support HDMI/DVI high definition resolutions 408p, 720p, 1080i/1080p up to 4K2K
04. Support link speeds of up to 6.75 Gbps (link clock rate of 340 MHZ)
05. Wide range of HD resolutions from PC XGA to WUXGA 1920x1200 and HDTV/DTV HDMI resolutions 480i/480p, 576i/576p, 720p, 1080i/p, 4K2K
06. Support (1) Preview output, Signal as output #1 simultaneously
07. Audio Supports Dolby TrueHD, Dolby Digital, Dolby Digital Plug/ex, DTS, DTS-HD, DTS-HD Master, DTS-EX, PCM, PCM2, LPCM2
08. Support IR Remote and IR Extender with distance 300M Maximum
09. Various User Interface controls :
    - Windows based GUI control via RS-232 port
    - Front Panel push buttons
    - IR wireless remote controller
    - IR External port (Switch Control)
    - Ethernet serial interface (Switch Control)
    - Third party RS-232 controller (via simple ASCII)
10. Compatible with full HD high resolution Video player device and LCD/ Prasma monitor displays or Projector,
11. Direct selection and confirm via Front push buttons with LED readout
12. Infrared : IR remote control (38KHz)
13. Support world wide seven (7) select embedded EDID modes
14. Support seven (7) control function key : ALL / OFF / RECALL / ENTER / MEMORY / LOCK / EDID
15. Support RS-232 interface control AP driver for PC 95/98/2000/xp/7/8 A Windows-based control software Driver packaged
16. Support desktop with Ear mount and 19 inch 1U Rack mountable type panel
17. Support Lower power consumed full load under 3880 mA
18. Power supply DC12Volt, Universal Type Switch 100~240VAC, 50/60Hz

## SPECIFICATIONS

| | |
|---|---|
| Type of HDMI Switcher | (4)x inputs To (8)x Outputs HDMI Matrix Switcher |
| HDMI Support | HDMI 1080P, 4K2K-@60Hz, 36-bit Deep color, HDMI V2.0 format |
| HDCP / CEC Support | HDCP 2.2 Compliant, CEC Compliant |
| Video Bandwidth | Double Data Rates:340Mhz, Total 6.75 Gbps bandwidth |
| Input | (4)x HDMI (HDMI or DVI digital source) |
| Output | (8)x HDMI (To 8x Destinations)<br>(1)x HDMI (Preview output:Signal as output #1 simultaneously) |
| Switch Controls | 1x Select & Function buttons on front panel (Data status via LED panel readout)<br>1x IR Remote Controller (switch control)<br>1x IR External port (switch control via 3.5mm OD Jack)<br>1x Ethernet serial interface (RJ-45 8p8c female socket)<br>1x RS 232 series interface (switch control) |
| Source Status | Input status LEDs indicates presence of a live signal |
| (19) Function Control Keys | 1.ALL, 2.OFF, 3.RECALL, 4.ENTER, 5.MEMORY, 6.LOCK, 7.EDID, 8.Destination button (1) thru (8), 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) |
| Dimension (WxDxH) | 19" x 9.84" x 1.73" (482mm x 250mm x 44mm) |
| Rack Mount | 1RU High 19 "Rack Mount #1U-440L (with rack mount) |
| Power Supply | DC12V, 5A, Powr Input : AC 100~240 VAC 50/60Hz (universal Type Supply) |
| Safety Approvals | CE, FCC, REACH |
| Weight | 3.45 Kg / 7.59 lb |

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# SB-5682LCM

8x2 HDMI Matrix Switcher

Input : 8x HDMI
Output : 2x HDMI + 1 Preview port

PRO MATRIX SWITCHER

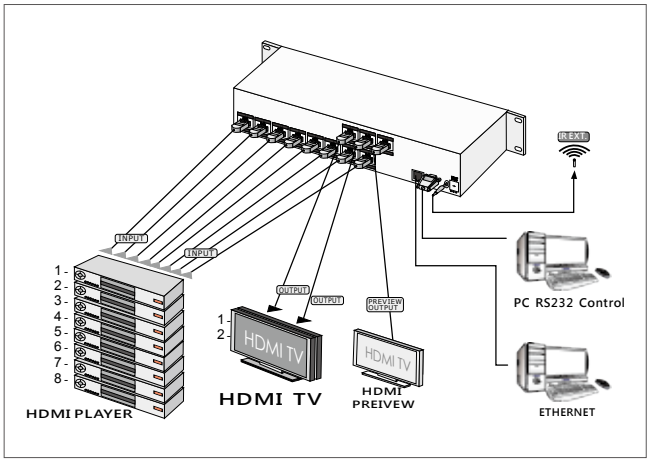
Ear Rack : 1U-440L



## INTRODUCTION

The SB-5682LCM is high-performance 8x2 matrix routing switcher for HDMI™ signals. This switcher supports data rates up to 2.25 Gbps, enabling 1080p HDMI™ formats and UXGA / WUXGA / DVI resolution to any HD displays. High Definition Digital signals can be selected and distributed to any 8 outputs simultaneously. The Switcher is certified as being fully HDMI™ and HDCP compliant, with CE,FCC, REACH certification. Support high resolution HDMI™ sources routed to HDMI™ displays, monitors,projector or audio receivers. The EDID can be selected between seven (7) different modes and learning mode. Control is provided via Front panel push buttons, IR remote or via RS-232. An RS-232 Windows GUI interface is provided for matrix routing. RS-232 or TCP/IP (not a web browser).

## DIAGRAM TYPICAL




## FEATURES

01. Support (8)x HDMI digital source devices Matrix switched to (2)x HDMI destinations.
02. HDMI Digital video/multi-channel audio format, DVI 1.0 format and HDCP 1.3 compliant.
03. Support HDMI/DVI high definition resolutions 408p, 720p, 1080i/1080p up to 36 bit, 3D formats.
04. Support link speeds of up to 2.25 Gbps (link clock rate of 250 MHZ)
05. Wide range of HD resolutions from PC XGA to WUXGA 1920x1200 and HDTV/DTV HDMI resolutions 480i/480p, 576i/576p, 720p, 1080i/p.
06. Support (1) Preview output, Signal as output #1 simultaneously.
07. Audio Supports Dolby TrueHD, Dolby Digital, Dolby Digital Plug/ex, DTS, DTS-HD, DTS-HD Master, DTS-EX, PCM, PCM2, LPCM2.
08. Support IR Remote and IR Extender with distance 300M Maximum
09. Various User Interface controls:
    - Windows based GUI control via RS-232 port.
    - Front Panel push buttons
    - IR wireless remote controller
    - IR External port (Switch Control)
    - Ethernet serial interface. (Switch Control)
    - Third party RS-232 controller (via simple ASCII)
10. Compatible with full HD high resolution Video player device and LCD/Plasma monitor displays or Projector
11. Direct selection and confirm via Front push buttons with LED readout
12. Infrared : IR remote control (38KHz)
13. Support world wide seven (7) select embedded EDID modes
14. Support seven (7) control function key :
    ALL / OFF / RECALL / ENTER / MEMORY / LOCK / EDID
15. Support RS-232 interface control AP driver for PC 95/98/2000/xp/7/8
    A Windows-based control software Driver packaged
16. Support desktop with Ear mount and 19 inch 1U Rack mountable type panel
17. Support Lower power consumed full load under 3880 mA
18. Power supply DC12Volt, Universal Type Switch 100~240VAC, 50/60Hz

## SPECIFICATIONS

| | |
|---|---|
| Type of HDMI Switcher | (8)x inputs To (2)x Outputs HDMI Matrix Switcher |
| HDMI Support | HDMI 1080P-60Hz, 36-bit Deep color,<br>HDMI V1.4a 3D formats |
| HDCP / CEC Support | HDCP 1.3 Compliant, CEC Compliant |
| Video Bandwidth | Double Data Rates : 250Mhz, Total 2.25Gbps bandwidth |
| Input | (8)x HDMI (HDMI or DVI digital source) |
| Output | (2)x HDMI (To 2x Destinations)<br>(1)x HDMI (Preview output : Signal as output #1 simultaneously) |
| Switch Controls | 1x Select & Function buttons on front panel<br>(Data status via LED panel readout)<br>1x IR Remote Controller (switch control)<br>1x IR External port (switch control via 3.5mm OD Jack)<br>1x Ethernet serial interface (RJ-45 8p8c female socket)<br>1x RS 232 series interface (switch control) |
| Source Status | Input status LEDs indicates presence of a live signal |
| (17) Function Control Keys | 1.ALL, 2.OFF, 3.RECALL, 4.ENTER, 5.MEMORY, 6.LOCK, 7.EDID, 8.Destination button (1) thru (2), 9.Source button (1) thru (8) |
| 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) |
| Dimension (WxDxH) | 19" x 9.84" x 1.73" (482mm x 250mm x 44mm) |
| Rack Mount | 1RU High 19 "Rack Mount #1U-440L (with rack mount) |
| Power Supply | DC12V, 5A, Powr Input : AC 100~240 VAC 50/60Hz (universal Type Supply) |
| Safety Approvals | CE, FCC, REACH |
| Weight | 3.05 Kg / 6.71 lb |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# SB-5682K

8x2 HDMI Matrix Switcher

Input : 8x HDMI
Output : 2x HDMI + 1 Preview port

PRO | MATRIX | SWITCHER | 4K2K-60Hz

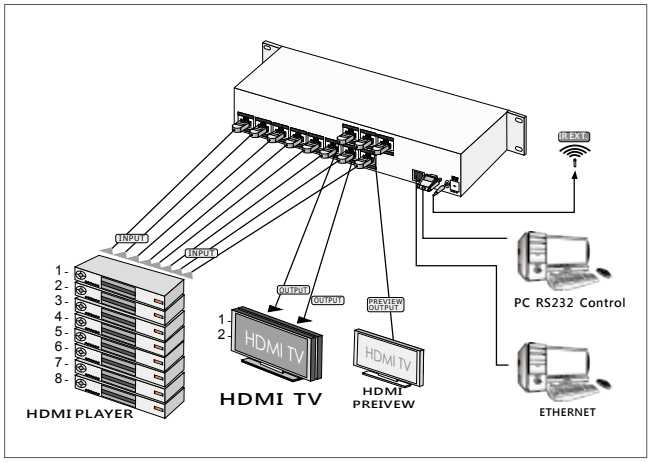
Ear Rack : 1U-440L



## INTRODUCTION

The SB-5682K is high-performance 8x2 matrix routing switcher for HDMI™ signals. This switcher supports data rates up to 6.75 Gbps, enabling 4K2K-60Hz HDMI™ formats and UXGA/WUXGA/DVI resolution to any HD displays. High Definition Digital signals can be selected and distributed to any 4 outputs simultaneously. The Switcher is certified as being fully HDMI™ V2.0 and HDCP 2.2 compliant, with CE,FCC certification. Support high resolution HDMI™ sources routed to HDMI™ displays, monitors, projector or audio receivers. The EDID can be selected between seven (7) different modes and learning mode. Control is provided via Front panel push buttons, IR remote or via RS-232. An RS-232 Windows GUI interface is provided for matrix routing.

## DIAGRAM TYPICAL




## FEATURES

01. Support (8)x HDMI digital source devices Matrix switched to (2)x HDMI destinations
02. HDMI Digital video/multi-channel audio format, DVI 1.0 format and HDCP 2.2 compliant
03. Support HDMI/DVI high definition resolutions 408p, 720p, 1080i/1080p up to 4K2K
04. Support link speeds of up to 6.75 Gbps (link clock rate of 340 MHZ)
05. Wide range of HD resolutions from PC XGA to WUXGA 1920x1200 and HDTV/DTV HDMI resolutions 480i/480p, 576i/576p, 720p, 1080i/p, 4K2K
06. Support (1) Preview output, Signal as output #1 simultaneously
07. Audio Supports Dolby TrueHD, Dolby Digital, Dolby Digital Plug/ex, DTS, DTS-HD, DTS-HD Master, DTS-EX, PCM, PCM2, LPCM2
08. Support IR Remote and IR Extender with distance 300M Maximum
09. Various User Interface controls :
    - Windows based GUI control via RS-232 port
    - Front Panel push buttons
    - IR wireless remote controller
    - IR External port (Switch Control)
    - Ethernet serial interface (Switch Control)
    - Third party RS-232 controller (via simple ASCII)
10. Compatible with full HD high resolution Video player device and LCD/ Plasma monitor displays or Projector
11. Direct selection and confirm via Front push buttons with LED readout
12. Infrared : IR remote control (38KHz)
13. Support world wide seven (7) select embedded EDID modes
14. Support seven (7) control function key : ALL / OFF / RECALL / ENTER / MEMORY / LOCK / EDID
15. Support RS-232 interface control AP driver for PC 95/98/2000/xp/7/8 A Windows-based control software Driver packaged
16. Support desktop with Ear mount and 19 inch 1U Rack mountable type panel
17. Support Lower power consumed full load under 3880 mA
18. Power supply DC12Volt, Universal Type Switch 100~240VAC, 50/60Hz

## SPECIFICATIONS

| | |
|---|---|
| Type of HDMI Switcher | (8)x inputs To (2)x Outputs HDMI Matrix Switcher |
| HDMI Support | HDMI 1080P, 4K2K-@60Hz, 36-bit Deep color, HDMI V2.0 format |
| HDCP / CEC Support | HDCP 2.2 Compliant, CEC Compliant |
| Video Bandwidth | Double Data Rates : 340Mhz, Total 6.75 Gbps bandwidth |
| Input | (8)x HDMI (HDMI or DVI digital source) |
| Output | (2)x HDMI (To 2x Destinations)<br>(1)x HDMI (Preview output : Signal as output #1 simultaneously) |
| Switch Controls | 1x Select & Function buttons on front panel (Data status via LED panel readout)<br>1x IR Remote Controller (switch control)<br>1x IR External port (switch control via 3.5mm OD Jack)<br>1x Ethernet serial interface (RJ-45 8p8c female socket)<br>1x RS 232 series interface (switch control) |
| Source Status | Input status LEDs indicates presence of a live signal |
| (17) Function Control Keys | 1.ALL, 2.OFF, 3.RECALL, 4.ENTER, 5.MEMORY, 6.LOCK, 7.EDID, 8.Destination button (1) thru (2), 9.Source button (1) thru (8) |
| 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) |
| Dimension (WxDxH) | 19" x 9.84" x 1.73" (482mm x 250mm x 44mm) |
| Rack Mount | 1RU High 19 "Rack Mount #1U-440L (with rack mount) |
| Power Supply | DC12V, 5A, Powr Input : AC 100~240 VAC 50/60Hz (universal Type Supply) |
| Safety Approvals | CE, FCC, REACH |
| Weight | 3.05 Kg / 6.71 lb |

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# SB-5684LCM

8x4 HDMI Matrix Switcher

Input : 8x HDMI
Output : 4x HDMI + 1 Preview port

PRO MATRIX SWITCHER

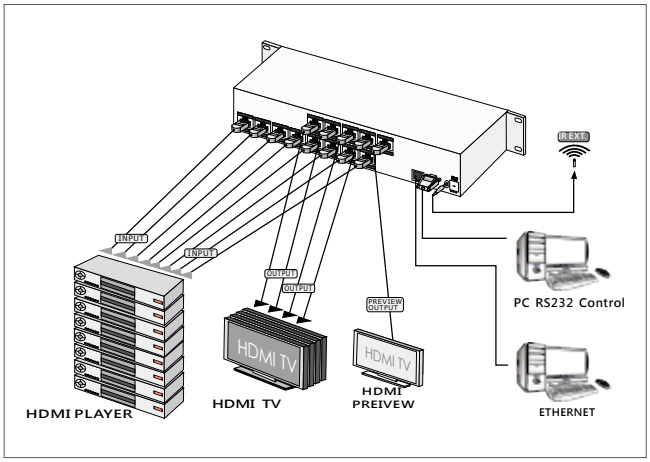
Ear Rack : 1U-440L



## INTRODUCTION

The SB-5684LCM is high-performance 8x4 matrix routing switcher for HDMI™ signals. This switcher supports data rates up to 2.25 Gbps, enabling 1080p HDMI™ formats and UXGA / WUXGA / DVI resolution to any HD displays. High Definition Digital signals can be selected and distributed to any outputs simultaneously. The Switcher is certified and fully HDMI™ and HDCP compliant, with CE,FCC certification. Support high resolution HDMI™ sources routed to HDMI™ displays, monitors, projector or audio receivers. The EDID can be selected between seven (7) different modes and learning mode. Control is provided via front panel push buttons, IR remote RS-232 or TCP/IP (not a web browser) A RS-232 Windows GUI interface is provided for matrix routing.

## DIAGRAM TYPICAL




## FEATURES

01. Support (8)x HDMI digital source devices Matrix switched to (4)x HDMI destinations.
02. HDMI Digital video/multi-channel audio format, DVI 1.0 format and HDCP 1.3 compliant.
03. Support HDMI/DVI high definition resolutions 408p, 720p, 1080i/1080p up to 36 bit, 3D formats.
04. Support link speeds of up to 2.25 Gbps (link clock rate of 250 MHZ)
05. Wide range of HD resolutions from PC XGA to WUXGA 1920x1200 and HDTV/DTV HDMI resolutions 480i/480p, 576i/576p, 720p, 1080i/p.
06. Support (1) Preview output, Signal as output #1 simultaneously.
07. Audio Supports Dolby TrueHD, Dolby Digital, Dolby Digital Plug/ex, DTS, DTS-HD, DTS-HD Master, DTS-EX, PCM, PCM2, LPCM2.
08. Support IR Remote and IR Extender with distance 300M Maximum
09. Various User Interface controls:
    - Windows based GUI control via RS-232 port.
    - Front Panel push buttons
    - IR wireless remote controller
    - IR External port (Switch Control)
    - Ethernet serial interface. (Switch Control)
    - Third party RS-232 controller (via simple ASCII)
10. Compatible with full HD high resolution Video player device and LCD/ Plasma monitor displays or Projector
11. Direct selection and confirm via Front push buttons with LED readout
12. Infrared : IR remote control (38KHz)
13. Support world wide seven (7) select embedded EDID modes
14. Support seven (7) control function key : ALL / OFF / RECALL / ENTER / MEMORY / LOCK / EDID
15. Support RS-232 interface control AP driver for PC 95/98/2000/xp/7/8 A Windows-based control software Driver packaged
16. Support desktop with Ear mount and 19 inch 1U Rack mountable type panel
17. Support Lower power consumed full load under 3880 mA
18. Power supply DC12Volt, Universal Type Switch 100~240VAC, 50/60Hz

## SPECIFICATIONS

| | |
|---|---|
| Type of HDMI Switcher | (8)x inputs To (4)x Outputs HDMI Matrix Switcher |
| HDMI Support | HDMI 1080P-60Hz, 36-bit Deep color, HDMI V1.4a 3D formats |
| HDCP / CEC Support | HDCP 1.3 Compliant, CEC Compliant |
| Video Bandwidth | Double Data Rates : 250Mhz, Total 2.25Gbps bandwidth |
| Input | (8)x HDMI (HDMI or DVI digital source) |
| Output | (4)x HDMI (To 4x Destinations)<br>(1)x HDMI (Preview output:Signal as output #1 simultaneously) |
| Switch Controls | 1x Select & Function buttons on front panel (Data status via LED panel readout)<br>1x IR Remote Controller (switch control)<br>1x IR External port (switch control via 3.5mm OD Jack)<br>1x Ethernet serial interface (RJ-45 8p8c female socket)<br>1x RS 232 series interface (switch control) |
| Source Status | Input status LEDs indicates presence of a live signal |
| (19) Function Control Keys | 1.ALL, 2.OFF, 3.RECALL, 4.ENTER, 5.MEMORY, 6.LOCK, 7.EDID, 8.Destination button (1) thru (4), 9.Source button (1) thru (8) |
| 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) |
| Dimension (WxDxH) | 19" x 9.84" x 1.73" (482mm x 250mm x 44mm) |
| Rack Mount | 1RU High 19 "Rack Mount #1U-440L (with rack mount) |
| Power Supply | DC12V, 5A, Powr Input : AC 100~240 VAC 50/60Hz (universal Type Supply) |
| Safety Approvals | CE, FCC, REACH |
| Weight | 3.65 Kg / 8.03 lb |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# SB-5684K

8x4 HDMI Matrix Switcher

Input : 8x HDMI
Output : 4x HDMI + 1 Preview port

PRO | MATRIX | SWITCHER | 4K2K-60Hz

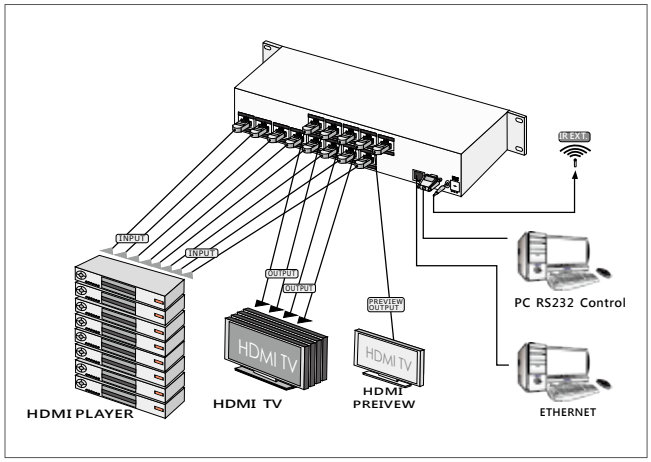
Ear Rack : 1U-440L



## INTRODUCTION

The SB-5684K is high-performance 8x4 matrix routing switcher for HDMI™ signals. This switcher supports data rates up to 6.75 Gbps, enabling 4K2K-60Hz HDMI™ formats and UXGA/WUXGA/DVI resolution to any HD displays. High Definition Digital signals can be selected and distributed to any 4 outputs simultaneously. The Switcher is certified as being fully HDMI™ V2.0 and HDCP 2.2 compliant, with CE,FCC certification. Support high resolution HDMI™ sources routed to HDMI™ displays, monitors, projector or audio receivers. The EDID can be selected between seven (7) different modes and learning mode. Control is provided via Front panel push buttons, IR remote or via RS-232. An RS-232 Windows GUI interface is provided for matrix routing.

## DIAGRAM TYPICAL




## FEATURES

01. Support (8)x HDMI digital source devices Matrix switched to (4)x HDMI destinations
02. HDMI Digital video/multi-channel audio format, DVI 1.0 format and HDCP 2.2 compliant
03. Support HDMI/DVI high definition resolutions 408p, 720p, 1080i/1080p up to 4K2K
04. Support link speeds of up to 6.75 Gbps (link clock rate of 340 MHZ)
05. Wide range of HD resolutions from PC XGA to WUXGA 1920x1200 and HDTV/DTV HDMI resolutions 480i/480p, 576i/576p, 720p, 1080i/p, 4K2K
06. Support (1) Preview output, Signal as output #1 simultaneously
07. Audio Supports Dolby TrueHD, Dolby Digital, Dolby Digital Plug/ex, DTS, DTS-HD, DTS-HD Master, DTS-EX, PCM, PCM2, LPCM2
08. Support IR Remote and IR Extender with distance 300M Maximum
09. Various User Interface controls :
    - Windows based GUI control via RS-232 port
    - Front Panel push buttons
    - IR wireless remote controller
    - IR External port (Switch Control)
    - Ethernet serial interface (Switch Control)
    - Third party RS-232 controller (via simple ASCII)
10. Compatible with full HD high resolution Video player device and LCD/ Plasma monitor displays or Projector
11. Direct selection and confirm via Front push buttons with LED readout
12. Infrared : IR remote control (38KHz)
13. Support world wide seven (7) select embedded EDID modes
14. Support seven (7) control function key: ALL / OFF / RECALL / ENTER / MEMORY / LOCK / EDID
15. Support RS-232 interface control AP driver for PC 95/98/2000/xp/7/8 A Windows-based control software Driver packaged
16. Support desktop with Ear mount and 19 inch 1U Rack mountable type panel
17. Support Lower power consumed full load under 3880 mA
18. Power supply DC12Volt, Universal Type Switch 100~240VAC, 50/60Hz

## SPECIFICATIONS

| | |
|---|---|
| Type of HDMI Switcher | (8)x inputs To (4)x Outputs HDMI Matrix Switcher |
| HDMI Support | HDMI 1080P, 4K2K-@60Hz, 36-bit Deep color, HDMI V2.0 format |
| HDCP / CEC Support | HDCP 2.2 Compliant, CEC Compliant |
| Video Bandwidth | Double Data Rates:340Mhz, Total 6.75Gbps bandwidth |
| Input | (8)x HDMI (HDMI or DVI digital source) |
| Output | (4)x HDMI (To 4x Destinations)<br>(1)x HDMI (Preview output:Signal as output #1 simultaneously) |
| Switch Controls | 1x Select & Function buttons on front panel (Data status via LED panel readout)<br>1x IR Remote Controller (switch control)<br>1x IR External port (switch control via 3.5mm OD Jack)<br>1x Ethernet serial interface (RJ-45 8p8c female socket)<br>1x RS 232 series interface (switch control) |
| Source Status | Input status LEDs indicates presence of a live signal |
| (19) Function Control Keys | 1.ALL, 2.OFF, 3.RECALL, 4.ENTER, 5.MEMORY, 6.LOCK, 7.EDID, 8.Destination button (1) thru (4), 9.Source button (1) thru (8) |
| 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) |
| Dimension (WxDxH) | 19" x 9.84" x 1.73" (482mm x 250mm x 44mm) |
| Rack Mount | 1RU High 19 "Rack Mount #1U-440L (with rack mount) |
| Power Supply | DC12V, 5A, Powr Input : AC 100~240 VAC 50/60Hz (universal Type Supply) |
| Safety Approvals | CE, FCC, REACH |
| Weight | 3.65 Kg / 8.03 lb |

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# SB-5685LCM

8x5 HDMI Matrix Switcher

Input : 8x HDMI
Output : 5x HDMI + 1 Preview port

PRO MATRIX SWITCHER

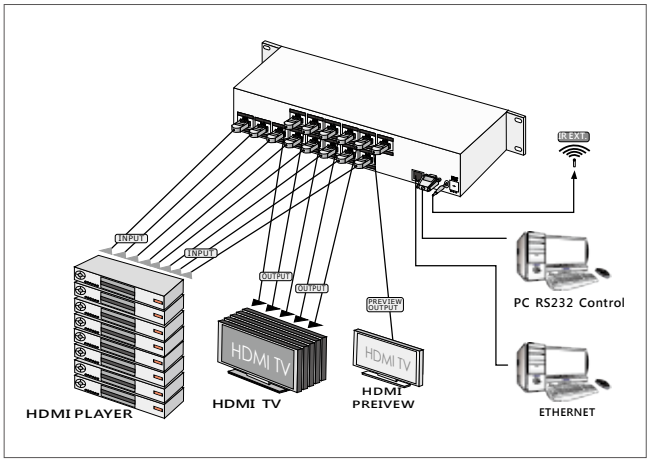
Ear Rack : 1U-440L



## INTRODUCTION

The SB-5685LCM is high-performance 8x5 matrix routing switcher for HDMI™ signals.This switcher supports data rates up to 2.25 Gbps, enabling 1080p HDMI™ formats and UXGA / WUXGA / DVI resolution to any HD displays. High Definition Digital signals can be selected and distributed to any 8 outputs simultaneously. The Switcher is certified as being fully HDMI™ and HDCP compliant, with CE,FCC certification. Support high resolution HDMI™ sources routed to HDMI™ displays, monitors, projector or audio receivers. The EDID can be selected between seven (7) different modes and learning mode. 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.

## DIAGRAM TYPICAL




## FEATURES

01. Support (8)x HDMI digital source devices Matrix switched to (5)x HDMI destinations
02. HDMI Digital video/multi-channel audio format, DVI 1.0 format and HDCP 1.3 compliant
03. Support HDMI/DVI high definition resolutions 408p, 720p, 1080i/1080p up to 36 bit
04. Support link speeds of up to 2.25 Gbps (link clock rate of 250 MHZ)
05. Wide range of HD resolutions from PC XGA to WUXGA 1920x1200 and HDTV/DTV HDMI resolutions 480i/480p, 576i/576p, 720p, 1080i/p
06. Support Digital Video TMDS in Deep Color 36 bits, 3D formats
07. Audio Supports Dolby TrueHD, Dolby Digital, Dolby Digital Plug/ex, DTS, DTS-HD, DTS-HD Master, DTS-EX, PCM, PCM2, LPCM2
08. Support IR Remote and IR Extender with distance 300M Maximum
09. Various User Interface controls:
    - Windows based GUI control via RS-232 port
    - Front Panel push buttons
    - IR wireless remote controller
    - IR External port (Switch Control)
    - Ethernet serial interface (Switch Control)
    - Third party RS-232 controller (via simple ASCII)
10. Compatible with full HD high resolution Video player device and LCD/ Plasma monitor displays or Projector
11. Direct selection and confirm via Front push buttons with LED readout
12. Infrared : IR remote control (38KHz)
13. Support world wide seven (7) select embedded EDID modes
14. Support seven (7) control function key :
    ALL / OFF / RECALL / ENTER / MEMORY / LOCK / EDID
15. Support RS-232 interface control AP driver for PC 95/98/2000/xp/7/8
16. A Windows-based control software Driver packaged
17. Support desktop with Ear mount and 19 inch 1U Rack mountable type panel
18. Support Lower power consumed full load under 3880 mA
19. Power supply DC12Volt, Universal Type Switch 100~240VAC, 50/60Hz

## SPECIFICATIONS

| | |
|---|---|
| Type of HDMI Switcher | (8)x inputs To (5)x Outputs HDMI Matrix Switcher |
| HDMI Support | HDMI 1080P-60Hz, 36-bit Deep color,<br>HDMI V1.4a 3D formats |
| HDCP / CEC Support | HDCP 1.3 Compliant, CEC Compliant |
| Video Bandwidth | Double Data Rates:225Mhz, Total 2.25Gbps bandwidth |
| Input | (8)x HDMI (HDMI or DVI digital source) |
| Output | (5)x HDMI (To 5x Destinations) |
| Switch Controls | 1x Select & Function buttons on front panel<br>(Data status via LED panel readout)<br>1x IR Remote Controller (switch control)<br>1x IR External port (switch control via 3.5mm OD Jack)<br>1x Ethernet serial interface (RJ-45 8p8c female socket)<br>1x RS 232 series interface (switch control) |
| Source Status | Input status LEDs indicates presence of a live signal |
| (20) Function Control Keys | 1.ALL, 2.OFF, 3.RECALL, 4.ENTER, 5.MEMORY, 6.LOCK, 7.EDID, 8.Destination button (1) thru (5), 9.Source button (1) thru (8) |
| 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) |
| Dimension (WxDxH) | 19" x 9.84" x 1.73" (482mm x 250mm x 44mm) |
| Rack Mount | 1RU High 19 "Rack Mount #1U-440L (with rack mount) |
| Power Supply | DC12V, 5A, Powr Input : AC 100~240 VAC 50/60Hz (universal Type Supply) |
| Safety Approvals | CE, FCC, REACH |
| Weight | 3.70 Kg / 8.14 lb 1x Ethernet serial interface (RJ-45 8p8c female socket) |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# SB-5685K

8x5 HDMI Matrix Switcher

Input : 8x HDMI
Output : 5x HDMI + 1 Preview port

PRO | MATRIX | SWITCHER | 4K2K-60Hz

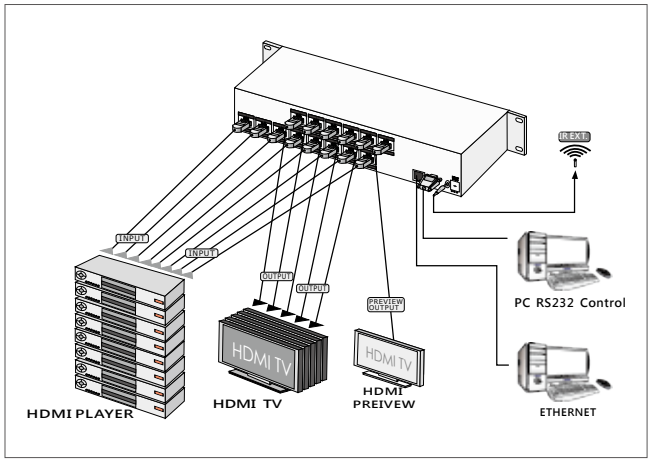
Ear Rack : 1U-440L



## INTRODUCTION

The SB-5685K is high-performance 8x5 matrix routing switcher for HDMI™ signals. This switcher supports data rates up to 6.75 Gbps, enabling 4K2K-60Hz HDMI™ formats and UXGA/WUXGA/DVI resolution to any HD displays. High Definition Digital signals can be selected and distributed to any 4 outputs simultaneously. The Switcher is certified as being fully HDMI™ V2.0 and HDCP 2.2 compliant, with CE,FCC certification. Support high resolution HDMI™ sources routed to HDMI™ displays, monitors, projector or audio receivers. The EDID can be selected between seven (7) different modes and learning mode. Control is provided via Front panel push buttons, IR remote or via RS-232. An RS-232 Windows GUI interface is provided for matrix routing.

## DIAGRAM TYPICAL




## FEATURES

01. Support (8)x HDMI digital source devices Matrix switched to (5)x HDMI destinations
02. HDMI Digital video/multi-channel audio format, DVI 1.0 format and HDCP 2.2 compliant
03. Support HDMI/DVI high definition resolutions 408p, 720p, 1080i/1080p up to 4K2K
04. Support link speeds of up to 6.75 Gbps (link clock rate of 340 MHZ)
05. Wide range of HD resolutions from PC XGA to WUXGA 1920x1200 and HDTV/DTV HDMI resolutions 480i/480p, 576i/576p, 720p, 1080i/p, 4K2K
06. Support Digital Video TMDS in Deep Color 36 bits, 3D formats
07. Audio Supports Dolby TrueHD, Dolby Digital, Dolby Digital Plug/ex, DTS, DTS-HD, DTS-HD Master, DTS-EX, PCM, PCM2, LPCM2
08. Support IR Remote and IR Extender with distance 300M Maximum
09. Various User Interface controls:
    - Windows based GUI control via RS-232 port
    - Front Panel push buttons
    - IR wireless remote controller
    - IR External port (Switch Control)
    - Ethernet serial interface (Switch Control)
    - Third party RS-232 controller (via simple ASCII)
10. Compatible with full HD high resolution Video player device and LCD/ Plasma monitor displays or Projector
11. Direct selection and confirm via Front push buttons with LED readout
12. Infrared : IR remote control (38KHz)
13. Support world wide seven (7) select embedded EDID modes
14. Support seven (7) control function key : ALL / OFF / RECALL / ENTER / MEMORY / LOCK / EDID
15. Support RS-232 interface control AP driver for PC 95/98/2000/xp/7/8
16. A Windows-based control software Driver packaged
17. Support desktop with Ear mount and 19 inch 1U Rack mountable type panel
18. Support Lower power consumed full load under 3880 mA
19. Power supply DC12Volt, Universal Type Switch 100~240VAC, 50/60Hz

## SPECIFICATIONS

| | |
|---|---|
| Type of HDMI Switcher | (8)x inputs To (5)x Outputs HDMI Matrix Switcher |
| HDMI Support | HDMI 1080P, 4K2K-@60Hz, 36-bit Deep color, HDMI V2.0 format |
| HDCP / CEC Support | HDCP 2.2 Compliant, CEC Compliant |
| Video Bandwidth | Double Data Rates : 340Mhz, Total 6.75Gbps bandwidth |
| Input | (8)x HDMI (HDMI or DVI digital source) |
| Output | (5)x HDMI (To 5x Destinations) |
| Switch Controls | 1x Select & Function buttons on front panel (Data status via LED panel readout)<br>1x IR Remote Controller (switch control)<br>1x IR External port (switch control via 3.5mm OD Jack)<br>1x Ethernet serial interface (RJ-45 8p8c female socket)<br>1x RS 232 series interface (switch control) |
| Source Status | Input status LEDs indicates presence of a live signal |
| (20) Function Control Keys | 1.ALL, 2.OFF, 3.RECALL, 4.ENTER, 5.MEMORY, 6.LOCK, 7.EDID, 8.Destination button (1) thru (5), 9.Source button (1) thru (8) |
| 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) |
| Dimension (WxDxH) | 19" x 9.84" x 1.73" (482mm x 250mm x 44mm) |
| Rack Mount | 1RU High 19 "Rack Mount #1U-440L (with rack mount) |
| Power Supply | DC12V, 5A, Powr Input : AC 100~240 VAC 50/60Hz (universal Type Supply) |
| Safety Approvals | CE, FCC, REACH |
| Weight | 3.70 Kg / 8.14 lb 1x Ethernet serial interface (RJ-45 8p8c female socket) |

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# SB-5688LCM

8x8 HDMI Matrix Switcher

Input : 8x HDMI
Output : 8x HDMI + 1 Preview port

PRO MATRIX SWITCHER

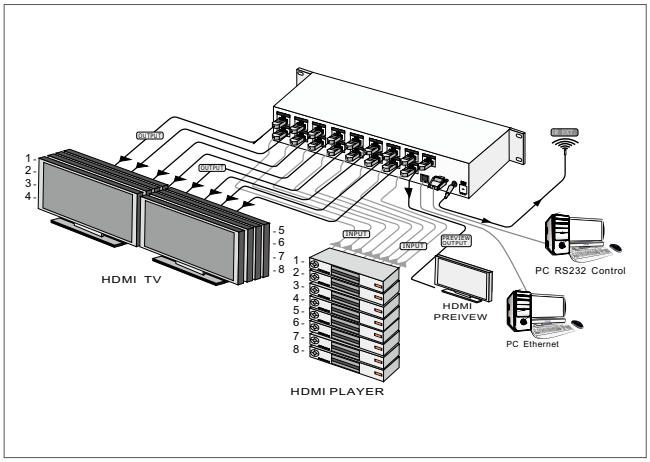
Ear Rack : 1U-440L



## INTRODUCTION

The SB-5688LCM is high-performance 8x8 matrix routing switcher for HDMI™ signals. This switcher supports data rates up to 2.25 Gbps, enabling 1080p HDMI™ formats and UXGA / WUXGA / DVI resolution to any HD displays. High Definition Digital signals can be selected and distributed to any 8 outputs simultaneously. The Switcher is certified as being fully HDMI™ and HDCP compliant, with CE,FCC, REACH certification. Support high resolution HDMI™ sources routed to HDMI™ displays, monitors,projector or audio receivers. The EDID can be selected between seven (7) different modes and learning mode. 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.

## DIAGRAM TYPICAL




## FEATURES

01. Support (8)x HDMI digital source devices Matrix switched to (8)x HDMI destinations.
02. HDMI Digital video/multi-channel audio format, DVI 1.0 format and HDCP 1.3 compliant.
03. Support HDMI/DVI high definition resolutions 408p, 720p, 1080i/1080p up to 36 bit, 3D formats.
04. Support link speeds of up to 2.25 Gbps (link clock rate of 250 MHZ)
05. Wide range of HD resolutions from PC XGA to WUXGA 1920x1200 and HDTV/DTV HDMI resolutions 480i/480p, 576i/576p, 720p, 1080i/p.
06. Audio Supports Dolby TrueHD, Dolby Digital, Dolby Digital Plug/ex, DTS, DTS-HD, DTS-HD Master, DTS-EX, PCM, PCM2, LPCM2
07. Support IR Remote and IR Extender with distance 300M Maximum
08. Various User Interface controls:
    - Windows based GUI control via RS-232 port
    - Front Panel push buttons
    - IR wireless remote controller
    - IR External port (Switch Control)
    - Third party RS-232 controller (via simple ASCII)
09. Compatible with full HD high resolution Video player device and LCD/ Plasma monitor displays or Projector
10. Direct selection and confirm via Front push buttons with LED readout
11. Infrared : IR remote control (38KHz)
12. Supports seven (7) worldwide standard embedded EDID modes
13. Support seven (7) control function key : ALL / OFF / RECALL / ENTER / MEMORY / LOCK / EDID
14. Support RS-232 interface control AP driver for PC 95/98/2000/xp/7/8 A Windows-based control software Driver packaged
15. Support desktop with Ear mount and 19 inch 1U Rack mountable type panel
16. Power supply DC12Volt, Universal Type Switch 100~240VAC, 50/60Hz

## SPECIFICATIONS

| | |
|---|---|
| Type of HDMI Switcher | (8)x inputs To (8)x Outputs HDMI Matrix Switcher |
| HDMI Support | HDMI 1080P-60Hz, 36-bit Deep color,<br>HDMI V1.4a 3D formats |
| HDCP / CEC Support | HDCP 1.3 Compliant, CEC Compliant |
| Video Bandwidth | Double Data Rates: 250Mhz, Total 2.25Gbps bandwidth |
| Input | (8)x HDMI (HDMI or DVI digital source) |
| Output | (8)x HDMI ( To 4x Destinations) |
| Switch Controls | 1x Select & Function buttons on front panel<br>(Data status via LED panel readout)<br>1x IR Remote Controller (switch control)<br>1x IR External port (switch control via 3.5mm OD Jack)<br>1x RS-232 series interface (switch control)<br>1x Ethernet series interface (switch control) |
| Source Status | Input status LEDs indicates presence of a live signal |
| (23) Function Control Keys | ALL, OFF, RECALL, ENTER, MEMORY, LOCK, EDID,<br>Destination button (1) thru (8), Source button (1) thru (8) |
| 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) |
| Dimension (WxDxH) | 19" x 7.87" x 1.73" (482mm x 200mm x 44mm) |
| Rack Mount | 1RU High 19 "Rack Mount #1U-440L (with rack mount) |
| Power Supply | DC12V, 5A, Powr Input : AC 100~240 VAC 50/60Hz<br>(universal Type Supply) |
| Safety Approvals | CE, FCC, REACH |
| Weight | 2.25 Kg / 4.95 lb |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# SB-5688K

8x8 HDMI Matrix Switcher

Input : 8x HDMI
Output : 8x HDMI

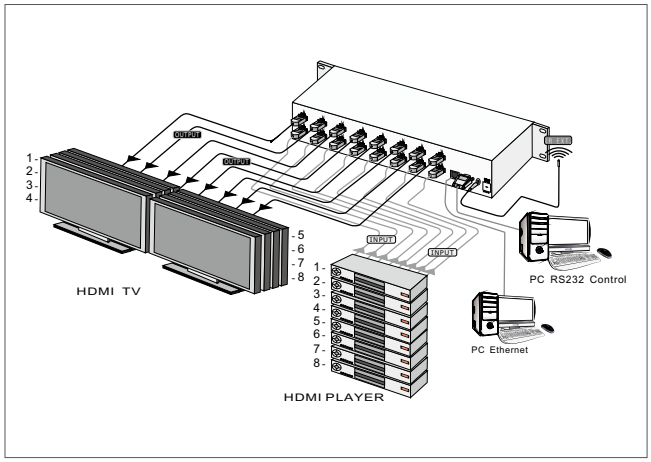
PRO MATRIX SWITCHER

Ear Rack : 1U-440L

## INTRODUCTION

The SB-5688K is professional 8x8 matrix routing switch. Supporting eight (8) HDMI™ Inputs. Output supported (8) HDMI™ port. The SB-5688K is based on the HDMI™ standard 4K2K 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 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 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

01. (8)x HDMI source devices matrix switched to (8)x HDMI output destinations
02. HDMI digital Video TMDS w/embedded HDCP, DVI format and CEC/HDCP 1.3 compliant
03. Worldwide control EDID modes for HDMI full 4K2K (24/25/30 Hz) HD Video resolutions
04. Link speeds of up to 6.75 Gbps (link clock rate of 340MbHz), Support HDMI 4K2K, 1.4a 3D formats
05. 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)
06. Digital Video TMDS formats Resolution up to 4K2K with Deep color 36-bit.
07. Digital Audio Support : Dolby TrueHD, Dolby Digital, Dolby Digital Plug/ex, DTS, DTS-HD, DTS-HD Master, DTS-EX PCM, PCM2, LPCM2.
08. Audio Input : Support HDMI standard multi-channel digital audio.
09. Audio Output : Support HDMI standard multi-channel digital audio.
10. 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)
11. Support seven (7) control function key : ALL / OFF / RECALL / ENTER / MEMORY / LOCK / EDID
12. Supports seven (7) worldwide standard embedded EDID modes
13. Automatic scanning input & output status via LCM show on front panel
14. Support IR Remote and IR Extender with distance up to ~ 984 feet (300M) Maximum
15. Support Universal power adaptor AC100V~240V, 50/60Hz

## SPECIFICATIONS

| | |
|---|---|
| Type of HDMI Switcher | 8x inputs To 8x Outputs HDMI Matrix Switcher |
| 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 |
| Input | 8x HDMI (HDMI or DVI digital source) |
| Output | 8x HDMI (To Destination) |
| Switch Controls | 1x Select & Function buttons on front panel (Data status via LCM panel show out)<br>1x IR Remote Controller (switch control)<br>1x IR External port (switch control via 3.5mm OD Jack)<br>1x RS 232 series interface (switch control)<br>1x Ethernet series interface (switch control) |
| Source Status | Input status LEDs indicates presence of a live signal |
| (23) Function Control Keys | 1.ALL, 2.OFF, 3.RECALL, 4.ENTER, 5.MEMORY, 6.LOCK, 7.EDID, 8.Destination button (1) thru (8), 9.Source button (1) thru (8) |
| 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) |
| Dimension (WxDxH) | 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, Powr Input : AC 100~240 VAC 50/60Hz (universal Type Supply) |
| Safety Approvals | CE, FCC, REACH |
| Weight | 3.25 Kg / 5.42 lb |



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# SB-5688AK

8x8 HDMI Matrix Switch with Auxiliary Audio

Input : 8x HDMI, 8x Auxiliary Audio
Output : 8x HDMI, 8x S/PDIF or ARC

S/PDIF | ARC | AUXILIARY | PRO | MATRIX | SWITCHER

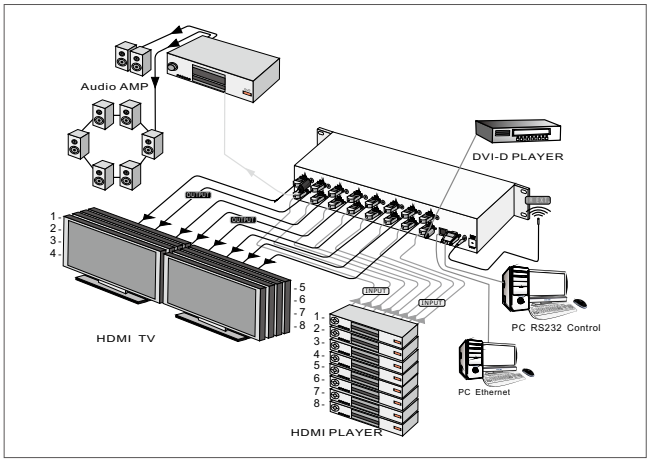
Ear Rack : 1U-440L



## 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) S/PDIF 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 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-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 RS-232 Windows GUI interface is provided for matrix routing control (Windows only).

## DIAGRAM TYPICAL




## FEATURES

01. (8)x HDMI with Auxiliary Audio (Analog Audio) source devices matrix switched to (8)x HDMI with S/PDIF output destinations
02. HDMI digital Video w/embedded HDCP, DVI format and CEC/HDCP 1.3 compliant
03. Worldwide control EDID modes for HDMI full 4K2K (24/30 Hz) HD Video resolutions
04. Link speeds of up to 6.75 Gbps (link clock rate of 340MbHz), Support HDMI 4K2K, 1.4a 3D formats
05. 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)
06. Digital Video TMDS formats Resolution up to 4K2K with Deep color 36-bit
07. Digital Audio Support : Dolby TrueHD, Dolby Digital, Dolby Digital Plug/ex, DTS, DTS-HD, DTS-HD Master, DTS-EX, PCM, PCM2, LPCM2.
08. Audio Input : Support Auxiliary Audio (Analog stereo audio)
09. Audio Output : Support Digital audio ARC or Digital audio S/PDIF ( from HDMI source or Auxiliary Audio )
10. 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)
11. Support world wide (9)x control function keys : Full function front panel controls : ARC / AUX/ ALL / OFF / EDID / LOCK / RECALL / MEMORY / ENTER
12. Supports seven (7) worldwide standard embedded EDID modes
13. Automatic scanning input & output status via LCM show on front panel
14. Support IR Remote and IR Extender with distance up to ~ 984 feet (300M) Maximum
15. 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 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 | 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<br>8x ARC : TV Return Channel Audio<br>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)<br>1x IR Remote Controller (switch control)<br>1x IR External port (switch control via 3.5mm OD Jack)<br>1x RS 232 series interface (switch control)<br>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) |
| 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) |
| Dimension (WxDxH) | 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, Powr Input :<br>AC 100~240 VAC 50/60Hz (universal Type Supply) |
| Safety Approvals | CE, FCC, REACH |
| Weight | 3.75 Kg / 6.25 lb |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# 8x8 Matrix Switch with Auxiliary Audio

Office

Restaurant

Home Theater

Hotel

Airport

School



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# SB-5669K

16x16 HDMI MATRIX SWITCHER

Input : 16x HDMI
Output : 16x HDMI

PRO MATRIX SWITCHER

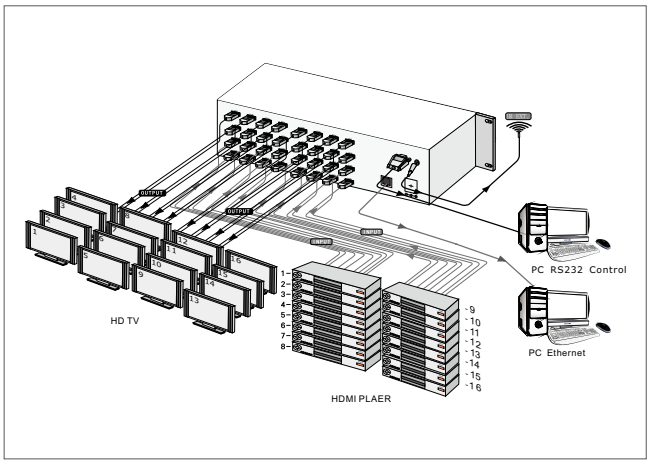
Ear Rack : 2U-440L



## INTRODUCTION

The SB-5669k is professional 16x16 matrix routing switch. Supporting sixteen (16) HDMI™ Inputs. Output supported (16) HDMI™ ports. The SB-5669k is based on the HDMI™ standard 4K2K 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 (16) Inputs to (16) outputs. The Switcher is certified as being fully CEC 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-5669K has 1x HDMI™ connector for Input, effectively making this an 16 in x16 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

01. (16)x HDMI source devices matrix switched to (16)x HDMI output destinations
02. HDMI digital Video TMDS w/embedded HDCP, DVI format and CEC/HDCP 1.3 compliant
03. Worldwide control EDID modes for HDMI full 4K2K (24/25/30 Hz) HD Video resolutions
04. Link speeds of up to 6.75 Gbps (link clock rate of 340MbHz), Support HDMI 4K2K, 1.4a 3D formats
05. 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)
06. Digital Video TMDS formats Resolution up to 4K2K with Deep color 36-bit
07. Digital Audio Support : Dolby TrueHD, Dolby Digital, Dolby Digital Plug/ex, DTS, DTS-HD, DTS-HD Master, DTS-EX, PCM, PCM2, LPCM2
08. Audio Input : Support HDMI standard multi-channel digital audio
09. Audio Output : Support HDMI standard multi-channel digital audio
10. 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)
11. Support world wide (7)x control function keys :
    Full function front panel controls : ALL / OFF / EDID / LOCK / RECALL / MEMORY / ENTER
12. Supports seven (7) worldwide standard embedded EDID modes
13. Automatic scanning input & output status via LCM show on front panel
14. Support IR Remote and IR Extender with distance up to ~ 984 feet (300M) Maximum
15. Support Universal power adaptor AC100V~240V, 50/60Hz

## SPECIFICATIONS

| | |
|---|---|
| Type of HDMI Switcher | 16x inputs To 16x Outputs HDMI Matrix Switcher |
| 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 |
| Input | 16x HDMI (HDMI or DVI digital source) |
| Output | 16x HDMI (To Destination) |
| Switch Controls | 1x Select & Function buttons on front panel (Data status via LCM panel show out)<br>1x IR Remote Controller (switch control)<br>1x IR External port (switch control via 3.5mm OD Jack)<br>1x RS 232 series interface (switch control)<br>1x Ethernet series interface (switch control) |
| Source Status | Input status LEDs indicates presence of a live signal |
| (39) Function Control Keys | 1.ALL, 2.OFF, 3.RECALL, 4.ENTER, 5.MEMORY, 6.LOCK, 7.EDID, 8.Destination button (1) thru (16), 9.Source button (1) thru (16) |
| 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) |
| Dimension (WxDxH) | 19" x 9.85" x 3.46" (482mm x 250mm x 88mm) |
| Rack Mount | 1RU High 19" Rack Mount #2U-440L (with rack mount) |
| Power Supply | Powr Input : AC 100~240 VAC 50/60Hz (universal Type Supply) |
| Safety Approvals | CE, FCC, REACH |
| Weight | 4.86 Kg / 8.10 lb |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