

SB-5616UM

16:2 HDMI 4K2K Routing Switcher with Microphone / Auxiliary Audio

Input : 16x HDMI, 1x AUX, 1x MIC
 Output 1 : 1x HDMI / S/PDIF / Stereo Audio (AR/AL)
 Output 2 : Modular Type

PRO SWITCHER



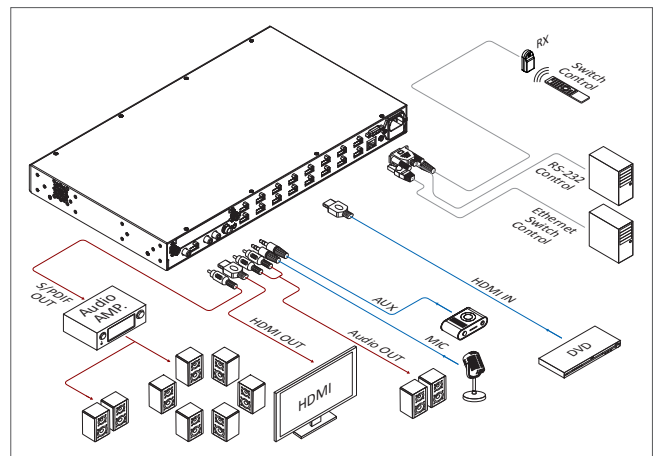
Ear Rack : 1U-440L

03

INTRODUCTION

The SB-5616UM is the professional 16:2 ULTRA HD HDMI™ 4K2K-60Hz Routing Switcher. HDMI Video supporting Sixteen (16) HDMI™ inputs to Two (2)x HDMI™, one (1)x SPDIF and one (1)x AR/AL outputs. Extra Audio supporting one (1)x Auxiliary Audio (analogue audio R/L) and one (1)x Microphone inputs to (1) Stereo Audio (AR/AL) output. The features that can be easily configured and controlled. Support HD/3D/4K2K video up to 60Hz support wide frequency range 25MHz ~ 600MHz (3840x2160) TMDs clock. HDMI compliant HDMI™ 1.4/2.0 and CEC/HDCP 1.4/2.2, with CE/FCC and RoHS certifications. Support menu function key as control Menu (adjusting Learning EDID, Reset), Exit, EDID, Memory, Recall, Audio Volume, mute, Reset (system reset), Lock and Audio (switch Auxiliary and Microphone). Control is provided via Front panel push buttons, IR remote, RS-232 or TCP/IP (not a web-browser). An RS232 Windows GUI interface is provided for switch control (Windows only).

DIAGRAM TYPICAL



FEATURES

- Switch support ULTRA HD (16:2) HDMI 4K2K-60Hz and (2:1) Audio / Microphone / Auxiliary audio
- Input supports : Video : (16)x UHD HDMI
Audio : (1)x Mic phone and (1)x Auxiliary Audio (R/L)
- Output supports: Video : (1)x HDMI 4K2K-60Hz, (1)x HDMI 4K2K-30Hz
Audio : (1)x SPDIF (5.1) from HDMI source
(1)x Stereo audio (AR/AL) from HDMI (PCM-2CH), Auxiliary and Microphone
- HDMI Digital Video TMDs Link speeds up to 6 Gbps, Wide frequency range 25MHz ~ 600MHz TMDs clock. w/embedded HDCP, DVI format, HDMI 1.4/2.0 and CEC/HDCP 1.4/2.2 compliant
- Worldwide control EDID modes for full SD / HD Audio and HD / 3D / 4K2K Video up to 4K2K@60Hz frame rate
- Digital Audio Support :
- Dolby TrueHD, Dolby Digital, Dolby Digital Plug/ex, DTS, DTS-HD
- DTS-HD Master, DTS-EX, PCM, PCM2, LPCM2
- Support ARC (Audio Return Channel) via SPDIF output port connect to sound device
- Audio Breakaway function to select Video source and another Audio, Microphone, Auxiliary audio sources
- Support one (1)x Microphone and (1)x Auxiliary Audio (Analog stereo audio) source input
- Audio output support volume control (1~100 levels) with "MUTE" audio function
- Support world wide (14)x control function keys
- Full function front panel controls :
(16)x HDMI, AUX, MIC, Menu, Exit, EDID, Recall, Memory, Volume, Reset, Lock, Audio (Audio Breakaway)
- Support EDID modes :
a. Embedded EDID modes : 720p / 1080i / 1080p / 4K2K-30Hz / 4K2K-60Hz
b. External modes : Learning Destination EDID mode
- Automatic scanning input & output status via Led show on front panel
- Using the build-in HDMI signal booster function, HDMI output is capable of driving cable lengths 1080p up to 98 feet (30M) & 4K2K up to 66 feet (20M)
- Provide IR remote control Frequency (38KHz)
- Various User Interface controls :
• Windows based GUI via RS232 interface control driver for 2000/XP/WIN7-32/WIN7-64/WIN10
• Front Panel push button
• IR wireless remote controller
• Ethernet Switch control
• Third party RS232 controller (via simple ASCII)
- Power supply Universal Type switch 100~240VAC, 50/60Hz

SPECIFICATIONS

Type of Switcher	(16:2) 16x HDMI inputs to 2x HDMI outputs, (2:1) Auxiliary and MIC inputs To 1x Audio
Inputs	Video : (16)x Ultra High Definition HDMI (4K2K-60Hz) Audio : (1)x Microphone, (1)x Auxiliary Audio (analogue audio)
Outputs	Video : (1)x Ultra High Definition HDMI (4K2K-60Hz), (1)x HDMI (1080p) Audio : (1)x SPDIF (5.1), (1)x Stereo Audio (with volume control)
HDMI / HDCP / CEC Support	HDMI 4K2K@60Hz, HDMI 1.4/2.0, HDCP 1.4/2.2 CEC Compliant
Video Bandwidth	Double Data Rates: bandwidth 25Mhz ~600Mhz
Digital Video Support	HD/3D/4K2K video up to 4K2K@60Hz frame rate
Digital Audio Support	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)
EDID management	1. Embedded EDID modes : (1): 720p, (2): 1080i, (3): 1080p, (4): 4K2K-30Hz, (5): 4K2K-60Hz (UHD) 2. Select LEARNING mode : Learning Destination EDID To Link Source
ARC support	Audio Return Channel Receiver/Transmitter via SPDIF output
Source Status	Input status LEDs indicates presence of a live signal
IR External Distance	~984 feet / 300 meters maximum
Extra Audio support	Extra audio support Auxiliary audio and Microphone outputs
Function Control / Keys	HDMI (1 thru 16), Audio (AUX/MIC), Menu/Exit, Memory/Recall, Audio/Volume, Lock 1x Select & Function buttons on front panel (Data status via LCM panel show out) 1x IR Remote Controller (switch control) 1x IR External port (switch control via 3.5mm OD Jack) 1x RS 232 series interface (switch control) 1x Ethernet series interface (switch control)
Switch Controls	
HDMI Signal Booster	Distance 1080p Cable 98 feet (30M), 4K2K Cable 66 feet (20M)
Infrared Frequency	38 KHz
Firmware Update	Firmware update via RS232
HDMI I/O Connector	HDMI Type A - SMD 19pin Female Type
Temperature	Operating Temperature 32°F - 100°F (0°C - 32°C)
Safety Approvals	CE, FCC, REACH
Rack Mount Bracket	19 inch 1U High Rack Mount Bracket (1U-440L)
Dimension (WxDxH)	17.4" x 9.96" x 1.73" (442mm x 253mm x 44mm)
Weight	2.5 kg / 5.51 lb
Power Supply	AC 100~240V 50/60Hz