

### SB-3693

#### 8:2 HDMI-VGA Quad-PiP-PoP Selector Switch Scaler

Input : 4x HDMI, 4x VGA / Audio, 1x AUX, 1x MIC  
 Output 1 : 1x HDMI, 1x VGA / Audio, 1x Composite Video  
 Output 2 : Modular Type (Page 01-01)

VGA MATRIX RS-232 PRO

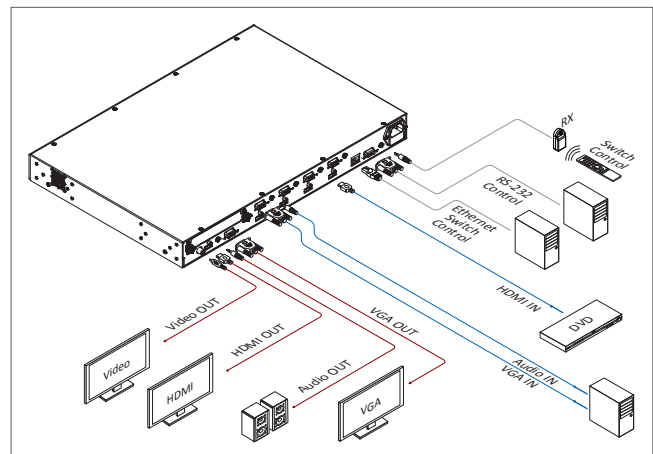


Ear Rack : 1U-440L

### INTRODUCTION

The SB-3693 is the professional 8:2 HDMI™/VGA Quad-PiP-PoP Selector Switch Scaler. Supporting four(4) HDMI™, (4)VGA/Audio inputs and one (1) HDMI™, (1)VGA, (1)Composite Video and (1)Audio output with Switch, Quad, Picture in Picture(PiP) and Picture of Picture(PoP) features that can be easily configured and controlled. Support video resolution up to 1080p with a signal bandwidth of 165MHz(1920x1200) and data rate up to 4.95Gbps with no signal degradation. The SB-3693 is HDMI™ 1.3 and HDCP 1.2 compliant, with CE and FCC certifications. Zoom management can be selected between 5 levels. Input resolutions can be scaled up to 1080p or down to 480p. EQ Audio output for Audio Equalizer Treble, Surround, Flat, Classic, Rock, Pops, Jazz, 3D and Bass. Support control function key as Resolution, EDID, Recall, Memory, Volume, Balance, Mute(HDMI audio), A/V(Audio Breakaway) and Modular second output. Six modular boards as the HDMI Scaler, HDBaseT(HDMI over HDBaseT), Coax. (BNC), IP channel(HDMI over ethernet IP channel), SDI, Fiber and HDMI-VGA. Control is provided via Front panel push buttons, IR remote, RS-232 or TCP/IP (not a web-browser). An RS232 Windows GUI interface is provided for matrix routing control (Windows only).

### DIAGRAM TYPICAL



### FEATURES

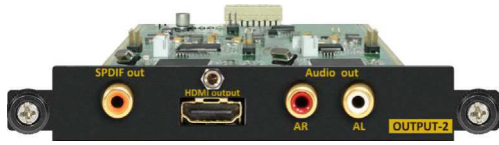
01. (4)x HDM and (4)x VGA inputs and (1)x HDMI / VGA / VIDEO / Audio with Modular output Selector switch Scaler
02. Support Switch, 4xQuad, PiP (Picture in Picture) and PoP (Picture of Picture)
03. Link speeds up to 4.95Gbps (link clock rate of 165MHz), HDMI 1.3 and HDCP 1.2 compliant
04. Digital Video TMDS formats Resolution up to 1080p with Deep color 36bit
05. Input supports : (4)x HDMI, (4)xVGA, Audio (480i/p to 1080p)
06. Output supports : (1)x HDMI 1080P-60Hz  
 (1)x VGA  
 (1)x Composite Video (NTSC/ PAL/ PAL-M/ PAL-Nc)  
 (1)x Stereo audio (AR/AL). Audio output support PCM 2ch
07. External second Output : (1)x Modular type
08. Zoom management can be selected between 5 levels
09. Audio Breakaway function to select Video source and another port Audio source
10. Support Audio Volume and Balance( 0~100 levels) control unctio.
11. Support memory location up to (8) address H1,H2,H3,H4,V1,V2,V3,V4
12. Mute function to mute HDMI Audio output
13. Audio Equalizer 1. By Pass, 2. Treble, 3. Surround, 4. Flat, 5. Classic, 6. Rock, 7. Pops, 8. Jazz, 9. With 3D, 10. With Bass
14. (16) Control Buttons : SW1 / SW2 / PiP / PoP / AV / Menu / Enter / Resolution / Lock / Reset / Mute / Zoom / Up / Down / Right / Left
15. Support Audio Breakaway function to output different audio source
16. Scaling supports : - Scaling down to 480p  
 - Scaling up to 1080p
17. HDMI Cable Distance 1080p-60Hz up to 98feet(30M)
18. Provide IR remote control Frequency (38KHz)
19. Various User Interface Control :
  - Windows based GUI via RS232 interface control driver for 2000/XP/ WIN7-32/WIN7-64/WIN8
  - Front Panel push button
  - IR wireless remote controller
  - Ethernet Switch control
  - Third party RS232 controller (via simple ASCII)
20. Power supply Universal Type switch 100~240VAC, 50/60Hz

### SPECIFICATIONS

Type of Switcher	4x HDMI, 4x VGA input and 1x HDMI, VGA and Audio output Selector Switch Scaler Box
Function Modes	Switch, 4x Quad, PiP & PoP
HDMI Support	HDMI 1080P@60Hz, H36-bit Deep color
HDCP / HDMI Support	HDCP 1.2 Compliant, HDMI 1.3 version
Video Bandwidth	Double Data Rates : 165Mhz, Total 4.95Gbps bandwidth
Scaling Video Support	HD : 480i / 480p / 720p and up to 1080i/p
Input	4x HDMI, 4xVGA (HDMI or DVI digital source)
Output	1x HDMI, VGA, Composite Video (NTSC/PAL)
External second output	1x Modular type
PiP Zoom Type	5x zoom Sizes
Audio Breakaway	Output support select different Video or Audio source function
Recall-Memory	Memory location 8 address : H1, H2, H3, H4, V1, V2, V3, V4 source select buttons
Mute Audio	To mute the HDMI audio output
Audio Equalizer	1. By Pass, 2. Treble, 3. Surround, 4. Flat, 5. Classic, 6. Rock, 7. Pops, 8. Jazz, 9. With 3D, 10. With Bass
Control	Front Panel push button, IR, RS-232, Ethernet
HDMI Signal Booster	Distance 1080p Cable 98 feet (30M)
Infrared Frequency	38 KHz
Firmware Update	Firmware update via RS-232
HDMI I/O Connector	HDMI Type A - SMD 19pin Female Type
Temperature	Operating Temperature 32°F - 100°F (0°C - 32°C)
Safety Approvals	CE, FCC, REACH
Rack Mount Bracket	19 inch 1U High Rack Mount Bracket (1U-440L)
Dimension (WxDxH)	17.4" x 11.9" x 1.73" (442mm x 303mm x 44mm)
Weight	2.6 kg / 5.73 lb
Power Supply	AC 100~240V 50/60Hz

## Modular Type

01



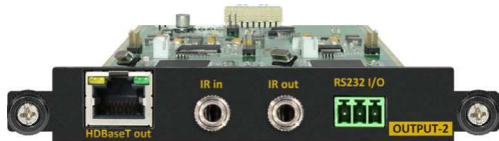
**T-HDMI-A**

Output : 1x HDMI, 1x S/PDIF, 1x Stereo Audio



**T-HDMI-VGA-A**

Output : 1x HDMI, 1x VGA/Audio, 1x Composite Video



**T-HDBT**

Output : 1x HDBaseT  
Control : IR (in/out), RS-232 (Tx)



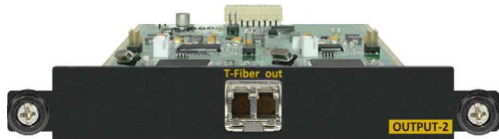
**T-IP-HDMI**

Output : 1x IP Extender, Tx(100M), 1x HDMI Loopout  
Control : IR (out), RS-232 (Tx)



**T-DP-A**

Output : 1x Display Port, 1x S/PDIF, 1x Stereo Audio



**T-FIBER**

Output : 1x Fiber



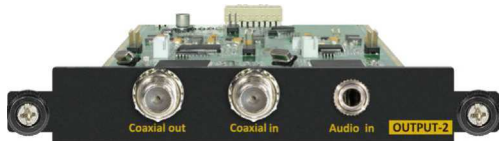
**T-SDI-A**

Input : 1x Audio  
Output : 1x SDI



**T-COAX-BNC**

Output : 1x Coax (BNC)



**T-COAX-F-A**

Input : 1x Audio, 1x Coax (F)  
Output : 1x Coax (F)



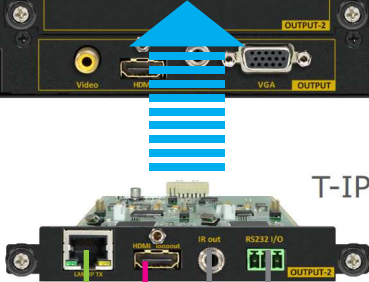
**T-COAX-BNC-HDMI-A**

Output : 1x Coax (BNC), 1x Audio, 1x HDMI Loopout  
Control : IR (out), RS-232 (Tx)

Method :

SB-3855

01



T-IP-HDMI



SB-6314



SB-6800R

SB-6800R

SB-6800R

SB-6800R

