SHINYBOW™

SB-5645CT
4x4 HDMI HDBaseT Matrix Switcher

Input   : 4x HDMI
Output : 4x HDMI, 4x HDBaseT

HDMI™   HDBT™
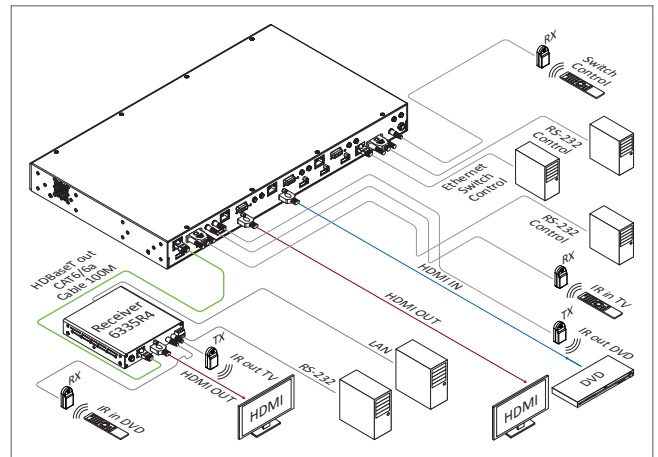HIGH-DEFINITION MULTIMEDIA INTERFACE

CAT5e/6   MATRIX   SWITCHER

Ear Rack : 1U-440L

INTRODUCTION

The SB-5645CT is high-performance 4x4 matrix routing switcher for HDMI™ input, HDMI™ and CAT5e/6 output signals simultaneously. Switcher supports Bandwidth 225MHz, HDMI™ 1.4a 3D formats, data rates up to 2.25 Gbps, 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 and fully HDMI™ and HDCP 1.3 compliant, with CE, FCC certification. Support high resolution HDMI™ sources routed to HDMI™ displays, HDMI™ monitors, HDMI™ projectors or audio receivers. Support CAT5e/CAT6 and HDMI™ outputs simultaneously. CAT5e/6 connection on each output extends the HDMI™ signal to remote room via CAT5e/6 HDMI™ Receiver SB-6335R. The EDID can be selected between eight (8) different modes via source row. Control is provided via the front panel push buttons, IR remote, IR Ext. or via RS-232. A RS-232 interface is provided for matrix routing.

DIAGRAM TYPICAL

FEATURES

01. Support 4x HDMI digital source devices Matrix to 4x HDMI and 4x HDBaseT destinations
02. Transmit HDMI, Bidirectional IR and RS-232 signals via single CATx cable
03. HDMI digital Video with embedded HDCP, DVI format and CEC/HDCP 1.3 compliant
04. Link speeds of up to 2.25 Gbps (link clock rate of 225MbHz), Support 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
06. Digital Video TMDS formats Resolution up to 1080p 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. 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)
09. Support world wide eight seven (7)x control function keys :
    Full function front panel controls : ALL / OFF / EDID / LOCK / RECALL / MEMORY / ENTER
10. Supports seven (7) worldwide standard embedded EDID modes
11. Automatic scanning input & output status via LCM show on front panel
12. Support IR Remote and IR Extender with distance up to ~ 984 feet (300M) Maximum
13. Support Universal power adaptor AC100V~240V, 50/60Hz

SPECIFICATIONS

Type of HDMI Switcher	4x inputs To 4x Outputs HDMI over HDBaseT Matrix Switch
HDMI Support	HDMI 1080P-60Hz, 36-bit Deep color, HDMI V1.4a 3D formats
HDBaseT Support	bi-directional IR, RS-232, Multi format Audio over one CATx cable
HDCP / CEC Support	HDCP 1.3 Compliant, CEC Compliant
Video Bandwidth	Double Data Rates : 225Mhz, Total 2.25Gbps bandwidth
Video Input	4x HDMI (HDMI or DVI digital source)
Audio Input	4x HDMI (To Destination)
Video Output	4x HDMI, 4x HDBaseT Transmitter with via category cable & RJ-45 connector
Audio Output	4x 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)
HDBaseT Control In	4x IR in, 1x ALL, IR, in (Send IR Signals to Room)
HDBaseT Control Out	4x IR out, 1x ALL, IR, out (Send IR Signals from Room)
HDBaseT Control I/O	4x RS-232 I/O (Control 4x Rooms RS-232 via Switcher HDBaseT Extender Tx)
Switch Controls	1x Select & Function buttons on front panel (Data status via LCM panel show out) 1x IR Remote Controller (switch control) 4x IR Room Remote Controller (switch control) 1x IR External port (switch control via 3.5mm OD Jack) 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), 11.Source button (1) thru (4)
Infrared Frequency	38 Khz
IR External Distance	~984 feet / 300 meters maximum
HDBaseT Extender Distance	~328 feet / 100 meters maximum
HDMI I/O Connector	HDMI Type A - SMD 19pin Female Type
Temperature	Operating Temperature 32°F - 100°F (0°C - 32°C)
Safety Approvals	CE, FCC, REACH
Rack Mount Bracket	19 inch 1U High Rack Mount Bracket (1U-440L)
Dimension (WxDxH)	17.4" x 9.96" x 1.73" (442mm x 253mm x 44mm)
Weight	2.5 kg / 5.51 lb
Power Supply	DC 12V, @5A (World Wide Universal AC 100~240V 50/60Hz)