

HDBT/HDMI®/DVI via CAT6/STP Matrix Switchers

KD-HD8X8BT **NEW**

8 Inputs to 8 Outputs HDBaseT/HDMI/DVI via Single CAT6/STP Matrix Switcher with Audio Distribution System



Key Features

- Full switching of 5 independent matrixes: Video, Analog/Digital Audio, HDMI Audio, IR, RS-232
- Control routing function to source/destination connections for Bi-Directional IR and RS-232 Control adds approx. 32 ports to KD-MC2500 Master Controller
- Supports all SD, HD, and VESA (VGA, SVGA, XGA, WXGA, SXGA, UXGA) resolutions up to 1080p (60Hz & 50Hz)
- Internal EDID Library features 12 default EDID configurations, in addition to Native EDID data for any Output/Display
- TMDS re-clock for support of long HDMI/DVI or CAT6/STP connections and daisy chain configurations
- Full Buffer™ Technology** – Full matrix buffering of HDCP and EDID for seamless switching and viewing of any source/input with any display/output, regardless of multiple output viewing relation
- Supports switching of lossless compressed digital audio:
 - Dolby® TrueHD, Dolby® Digital Plus and DTS™ -HD Master Audio
- AudioFlex™ System** – system in which Multi-Channel audio can be routed to capable zones, while 2-Channel audio is routed to zones with this requirement
- CAT6 outputs implement HDBaseT® format
- Flexible I/O configuration from 1x15 to 15x1 and multi-unit configurations from 8x16 to 32x32



Key Benefits

- Transmits 1080p/60Hz signals up to 400 ft. and 1080p/24, 1080i, 720p signals up to 600 ft. when used with KD-CATHD500Rx receive baluns and KD-CAT6STP1X CAT6/STP cabling. Compatible with third-party CAT6/STP with lesser distance performance.
- Fully automatic CAT6/STP cable equalization
- 16 active outputs (8 HDMI/DVI and 8 CAT6/STP) enable flexible integration
- Audio switching & processing of volume, treble, bass, balance, and lip-synch for 2-ch stereo formats apply to respective output's HDMI, RJ45, and Analog/PCM audio connection
- Serial IR, Optical IR, Front Panel & RS-232 control. Supports major control systems: Compass Control®, AMX®, Control4®, Crestron®, RTI®, Universal®

Advanced HDMI® Features

- 3D** – Capability to pass 3D stereoscopic signal formats
- 4K** – 4096x2160/24 video resolution support for commercial applications such as Digital Movie Theaters, CAD, Post Production, Graphics and etc.

Specifications

Technical:

- Input (Each):** 1 HDMI; Left and Right Stereo on two RCA, or one SPDIF digital audio on Left RCA connector; 1 wired IR or RS-232 on 3.5 mm stereo jack connector per input
- Output (Each):** 1 HDMI; 1 HDBaseT CAT6/STP on RJ-45 connector; Left and Right Stereo on two RCA, or one SPDIF digital audio on Left RCA connector; 1 wired IR or RS-232 on 3.5 mm stereo jack connector per output. HDBaseT out with HDMI, RS-232, Bi-directional IR.
- Configuration:** 8 input sections and 8 output sections in standard configuration
- Bandwidth:** TMDS bandwidth 3.4 Gb/s
- Control:** Front panel push buttons and LCD display; Infrared IR front; RS-232 Tx and Rx lines; Full bi-directional operation
- Video/Audio Matrix Switching:** Full Matrix switching of 3 independent matrixes: HDMI Video, HDMI Audio, Analog/Digital Audio
- RS-232 Control Matrix:** RS-232 input/output can independently control the system or output through attached HDBaseT KD-CATHD500Rx Balun. Full bi-directional RS-232.
- Wired IR Control Matrix:** Each input/output section wired IR and unit wired IR can be switched into matrix in bi-directional operation to any of the input/output
- Auto EQ adjustment:** On Rx Balun. Precise auto-adjustment, distance measurement
- HDMI® and HDCP Licensing:** Fully licensed and compatible with all technologies
- Link and Range:** Single Link Range: 1080p/60, 1920x1200 max. 400 ft. with KD-CAT6STP1X cabling / 300 ft. with third-party CAT6/STP. For 1080i/60; 720p; 1080p/24 600 ft. with KD-CAT6STP1X cabling / 500 ft. with third-party CAT6/STP.
- Lossless Compressed Digital Audio:** Support lossless compressed digital audio (Dolby® TrueHD, Dolby® Digital Plus and DTS™ -HD Master Audio)
- DDC Signal (Data):** Input DDC Signal: 5 Volts p-p (TTL)
- DDC Communication:** EDID and HDCP Bi-Directional Transparency from Display to Source
- RS-232:** RS-232 Tx and Rx line active and bi-directional up to 115,200 baud rate
- Wired IR:** IR line modulated or not modulated, active and bi-directional 0-5V TTL
- HDMI Video/Audio Signal:** Input Video Signal: 1.2 Volts p-p
- HDMI Connector:** Type A, 19 Pin Female
- RJ45 Connector:** Link Connector; RJ-45 Shielded

General

- Regulation:** CE, RoHS, WEEE
- Accessories:** IR Remote Control, UL Certified Power Supply - 12V / 8.33A, 16 HDMI Cable Clips, 6 ft. USB Data Cable
- Enclosure:** Black Metal
- Rack Mount:** 3RU, Full Rack Width (rack ears included)
- Product Dimensions:** 17.5" x 9.25" x 5.25"
- Shipping Carton Dimensions:** 20.5" x 13" x 9.5"
- Product Weight:** 14 lbs
- Shipping Weight:** 24 lbs



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KD-HD8X8BT Custom Configurations: 8x16 up to 32x32 **NEW**

Custom configurable expansion SKUs of KD-HD8X8BT. Please visit www.keydigital.com for full SKU listing.

2 Units: KD-HD8X8BT-8x16



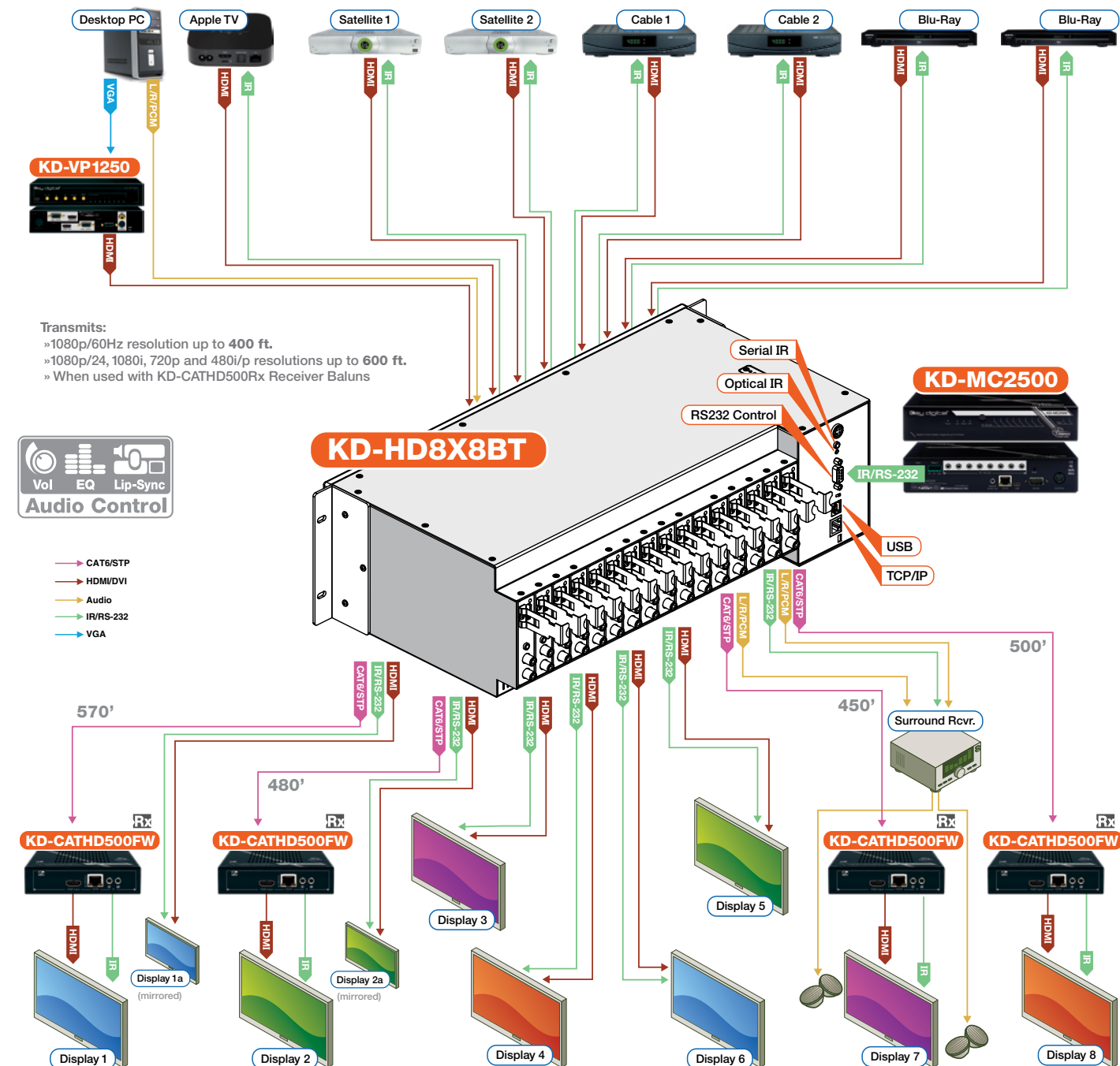
3 Units: KD-HD8X8BT-8x24



4 Units: KD-HD8X8BT-8x32



KD-HD8X8BT System Design Example



*To connect DVI, use HDMI to DVI adapters. HDBaseT is a registered trademark of HDBaseT Alliance. HDMI is a registered trademark of HDMI Licensing, LLC & HDMI.org