Overview:

The HDMI 4x4 Matrix Switch Kit, HDBT, PoC, 4K/60 (4:2:0) allows up to four (4) different HDMI sources to be connected and/or distributed to up to four (4) HDMI displays. The unit supports three (3) HDBT outputs for long distance connectivity and one (1) HDMI output for local connectivity. The Kit includes three (3) HDBT PoC Receivers which are powered by the Matrix Switch, and support distances up to 70m at 1080p and 40m at 4K via Cat5e cable. Management functions include front panel pushbutton, IR, RS232 and webserver interface. Software updated are supported via a USB port.
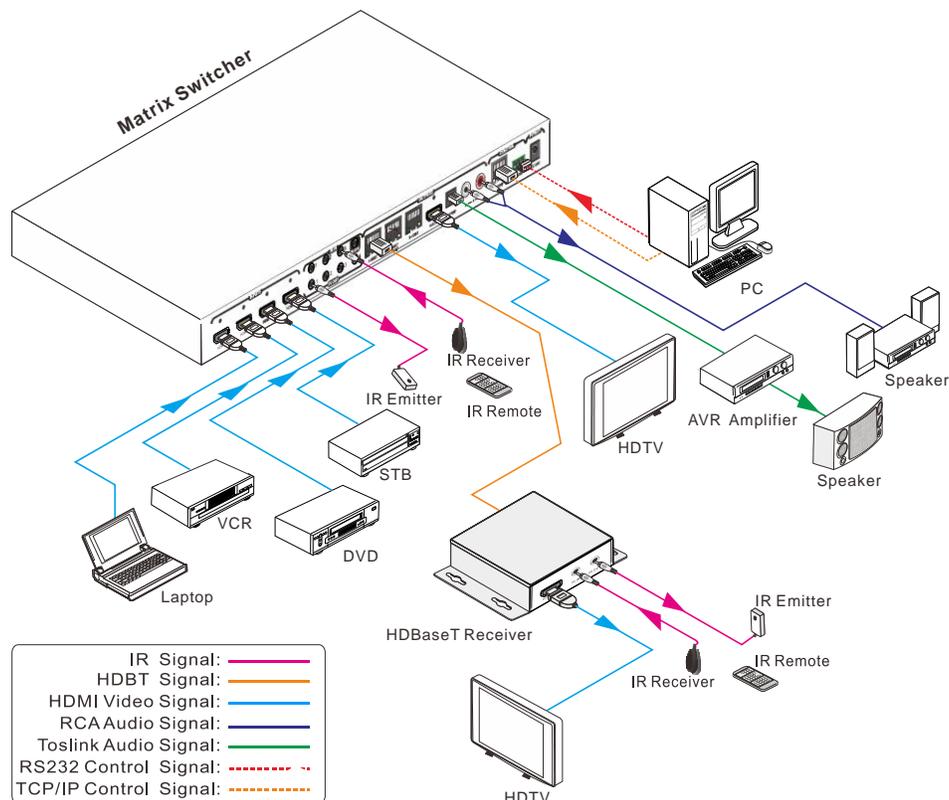
Applications:

- Commercial and residential AV systems
- Classroom training systems
- Digital signage
- Boardroom systems
- Collaborative PC systems
- Medical information systems

Key Features:

- Supports HDMI 2.0 (4K/60 4:2:0) & HDCP 2.2
- 3 HDBT outputs, support distances up to 70m at 1080p and 40m at 4K
- Kit includes 3 HDBT Receivers which are powered by the matrix switch via 24VDC PoC
- Supports LPCM 7.1CH, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio and DTS:X
- RCA L/R audio out and TosLink optical audio out
- Supports 2-way IR to manage end devices
- Powerful EDID management
- Controllable via front panel, RS232, IR and TCP/IP
- Built-in GUI web interface

Typical Application

IR Signal:	
HDBT Signal:	
HDMI Video Signal:	
RCA Audio Signal:	
Toslink Audio Signal:	
RS232 Control Signal:	
TCP/IP Control Signal:	

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Specifications	
Environment	HDMI 2.0a
Devices	Ultra HD Blu-Ray, media players/streamers, projectors, monitors, TV, PC, laptops.
Transmission	Transparent to the user.
Video Bandwidth	10.2 Gbps
Maximum Pixel Clock	297Mhz
Signals	HDMI 2.0 (4K/60 4:2:0) protocol and HDCP 1.4 & 2.2
Video Resolution	VESA and SMPTE 480p to 2160p (4K) With 3D Bit depth: 8, 10, 12
Connectors	Five (5) HDMI connectors for HDMI Input (x4) & Output (x1) Three (3) RJ45 shielded connectors for HDBT Eight (8) 3.5mm Jacks; for IR Sensor & Emitters One (1) 3-pin phoenix/terminal block (3.81 mm) for RS232 One (1) TOSLink fo r digital Audio Output Two (2) RCA Jacks for 2CH audio output One (1) RJ45 Shielded connector for Ethernet One (1) USB Port for firmware upgrade One (1) 2.1mm barrel locking connector for Power
Audio	Analog Audio: 2CH PCM Digital Audio: PCM, Dolby TrueHD, DTS-HD Master Audio
Cable	HDMI cable of appropriate length for video resolution selected Cat 5e/6 or better twisted pair cable required
Maximum Distance *Based on a maximum length of 6.6ft. (2m) of HDMI cable per end.Cables not included.*	Cat 5e/6: Up to 230ft (70 m) @ 1080p Up to 131ft (40m) @ 4K/30 (4:4:4), or 4K/60 (4:2:0) *Note: When installed in an electrically noisy environment, an STP cable must be used. Also, cross-connections reduce the effective distance depending on the twisted pair cable used.*
HDBT Receivers	Kit includes three (3) HDBT PoC Receivers
Power Supply	One (1) 110-240VAC to 24VDC/2.71A power supply
Temperature	Operating: 0° to 50°C Storage: -20° to 85°C Humidity: Up to 90% non-condensing
Enclosure	Metal enclosure
Bracket	Included (wall mount)
Dimensions	500412 Matrix Switch: 14.17" x 1.10" x 5.91" (360mm x 28mm x 150mm) 500412-RX Receiver: 4.72" x 0.94" x 2.36" (120mm x 24mm x 60mm)
Weight	500412 Matrix Switch: 2.00 lbs (0.91 kg) 500412-RX Receiver: 0.36 lbs (0.16 kg)
Compliance	Regulatory: FCC, CE, RoHS
Warranty	2 years
Order Information	500412-US HDMI 4x4 Matrix Switch Kit, HDBT, PoC, 4K/60, US (UPC: 627699014127) 500412-UK HDMI 4x4 Matrix Switch Kit, HDBT, PoC, 4K/60, UK (UPC: 627699914120) 500412-EU HDMI 4x4 Matrix Switch Kit, HDBT, PoC, 4K/60, EU (UPC: 627699814123) 500412-RX HDMI Receiver, HDBT, PoC, 4K60 (4:2:0) (UPC: 627699024126)