

# For Immediate Release

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## **Master Controller and Matrix Switcher, “Perfect Together”**

**Mount Vernon, NY. Key Digital Systems, Inc.** the Experts in Digital Video Technology and Solutions.

In complex Video installations, system control requirements can become as intensive as matrix switching requirements. This forces installers to double the amount of hardware and double the amount of wires necessary to achieve control. In addition, it increases the time spent for installation because installers need to deal with multiple programming platforms and multiple brand support issues. Key Digital Matrix switchers and Baluns/extenders have extensive master control connectivity capability in software and hardware to help mitigate these issues:

1. The KD-MSWCAT4x4/8x8 Matrix switch, is able to take RS232 or IR signals from a controller, and pass it through CAT5 baluns to the Display. It also works in reverse when a control system can *receive* RS232 or IR data from the display location. This capability allows KD-MSWCAT8x8 to control 16 devices connected to the outputs. In addition, MSWCAT's 'H' (Horizontal Sync) inputs can also be used for one way IR or RS232 transmission. This capability allows KD-MSWCAT8x8 to control 8 devices connected to the 'H' of the outputs.
2. The KD-HDMS4x4 Matrix switch is able to take RS232 or IR signals from a controller, and pass it through CAT5 Baluns to Sources and Displays. It also works in reverse when the Control system can receive RS232 or IR data *from* sources and displays. Each input or output allows KD-HDMS4x4 to control 3 devices via IR or RS232. In total you can control 24 devices.
3. The KD-HDMS8x8 is able to take RS232 or IR signals from a controller and pass it through CAT5 Baluns to Sources and Displays. It also works in reverse when control system can receive RS232 or IR data *from* sources and displays. In addition it is able to recreate any RS232 commands by TCP/IP information delivered via Ethernet. Each input or output allows KD-HDMS4x4 to control 3 devices via IR or RS232. In total you can control 48 devices.

4. KD-VAC TX baluns can pass IR and RS232 to and from VAC Rx Baluns or MSWCAT4x4/8x8 matrix switchers.
5. KD-BB TX baluns can pass IR and RS232 to KD-BB Rx Baluns or MSWCAT4x4/8x8 matrix switchers.
6. KD-CVA TX baluns can pass IR or RS232 (when transmitting Component video), on the unused 'H' (Horizontal Sync) channel to KD-CVA Rx Baluns or MSWCAT4x4/8x8 matrix switchers.
7. KD-CATDA Tx can pass IR or RS232 (when transmitting Component video), over the unused 'H' channel to and from KD-CVA Rx Baluns.

### **KD-HDMS8x8**

Key Digital Hercules Series™ KD-HDMS8x8 is a HDMI Matrix Switcher capable of switching up to 8 HDMI/DVI Video Sources/Inputs to 8 independent Zones/Outputs via HDMI and CAT5. It also features card slot architecture providing flexible Input/Output configurations.



#### **Key Features:**

- Full switching of 3 independent matrixes: Video, Audio and Control
- Supports all SD, HD, and VESA (VGA, SVGA, XGA, WXGA, SXGA, UXGA) resolutions up to 1080p (60Hz & 50Hz)
  - SD & HD: 480i, 480p, 720p, 1080i, 1080p
  - VESA / VGA (RGBHV): From 640x480p up to 1920x1200p
- Full support for HDCP, HDMI 1.3a/b and 3D
- Supports lossless compressed digital audio (Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio)
- Internal EDID Library features 8 default EDID configurations, in addition to Native EDID data for any Output/Display

#### **Key Benefits:**

- Transmits 1080p/60Hz resolution up to 140 ft, 1080p/24, 1080i, 720p and 480i/p resolutions up to 270 ft, when used with KD-BBRX receiver Baluns
- Video, Audio, IR and RS-232 distribution via a single CAT5 cable
- Fully automatic CAT5 cable equalization
- 16 active outputs (8 HDMI/DVI and 8 CAT5) enables flexible integration
- Full Audio control per output for volume, treble, bass, balance, and lip-sync from analog or digital sources
- Serial IR, Optical IR, Front Panel Control, Discrete Remote Codes, RS-232 and TCP/IP. Supports major control systems such as AMX®, Control4®, Crestron®, RTI®, Savant, Universal®, Xantech® and others

## **KD-HDMS4x4**

HDMI Matrix Switcher capable of switching up to 4 HDMI/DVI Video Sources/Inputs to 4 independent Zones/Outputs via HDMI and CAT5 Possible 1X7, 2X6, 3X5, 4X4, 5X3, 6X2, or 7X1 configurations using interchangeable card slot option.

### **Key Features:**

- Full switching of 6 independent matrixes: Video, Analog Audio, Digital Audio, HDMI Audio, Bi-Directional IR, and Bi-Directional RS-232 Control
- Supports all SD, HD, and VESA (VGA, SVGA, XGA, WXGA, SXGA, UXGA) resolutions up to 1080p (60Hz & 50Hz)
- SD & HD: 480i, 480p, 720p, 1080i, 1080p
- VESA / VGA (RGBHV): From 640x480p up to 1920x1200p
- Full support for HDCP, HDMI 1.3a/b, 12-bit Deep Color
- Supports lossless compressed digital audio (Dolby® TrueHD, Dolby® Digital Plus and DTS™-HD Master Audio)
- Internal EDID Library features default EDID configurations, in addition to native EDID data from any Output/Display

### **Key Benefits:**

- Transmits 1080p/60Hz up to 150 ft, 1080i and all lesser resolutions transmitted up to 300 ft.,when used with KD-HDBBRX Receiver Baluns
- Video, Audio, IR and RS-232 distribution via a single CAT5 cable
- Fully automatic CAT5 cable equalization, with optional manual calibration
- 2 active outputs per card slot, provides 8 active outputs (4 HDMI/DVI and 4 CAT5) in a 4X4 configuration and enables flexible integration
- Full Audio control per output for volume, treble, bass, balance, and lip-sync
- Serial IR, Optical IR, Front Panel Control, Discrete Remote Codes, and RS-232. Supports major control systems such as AMX®, Colorado vNet®, Control4®, Crestron®, HomeLogic™, lifelware™, RTI®, Savant, Universal®, Xantech®

## **KD-BBTX/RX**

HDMI/DVI Video, Analog & Digital Audio Smart Balun™ with Control over single CAT5/6/7

### **Key Features:**

- Extends HDMI or DVI Video, L/R Analog, or PCM Digital Audio, IR and RS-232 over a single CAT5/6/7 cable
- Supports all SD, HD, and VESA (VGA, SVGA, XGA, WXGA, SXGA, UXGA) resolutions up to 1080p (60Hz & 50Hz):
  - **SD & HD:** 480i, 480p, 720p, 1080i, 1080p
  - **VESA / RGBHV:** From 640x480p up to 1920x1200p
- Full Support for HDMI with HDCP, 12-Bit Deep Color Video
- Supports lossless compressed digital audio:
  - Dolby® TrueHD, Dolby® Digital Plus and DTS™-HD Master Audio

- Bi-Directional and Simultaneous IR and RS-232 Audio Toggle Switch for Analog / Digital Audio Selection

### **Key Benefits:**

- Receives HDMI Video, HDMI Audio, Digital or Analog Audio, IR and RS-232 over a single CAT5/6/7 cable
- Transmits 1080p/60 signals up to 150 feet, 1080p/24 signals up to 280 feet over a single CAT5/5e/6 cable
- Compatible with [KD-HDMS4x4](#) and [KD-HDMS8x8](#) HDMI via CAT5 Matrix Switchers
- Allows extension of HDMI signals distances that standard HDMI cables cannot achieve
- Enables the use of less expensive CAT5/6/7 cabling for HDMI/DVI signal distribution

### **KD-MSWCAT4x4/8x8**

Video/Audio Matrix Switcher capable of switching up to 8 Component/VGA Video Sources/Inputs to 8 independent Zones/Outputs via CAT5/6/7 with Analog Audio

### **Key Features:**

- Full switching of 4 independent matrixes: Video, Analog or Digital Audio, Bi-Directional IR, and Bi-Directional RS-232 Control
  - Supports all SD, HD, and VESA (VGA, SVGA, XGA, WXGA, SXGA, UXGA) resolutions up to 1080p (60Hz & 50Hz)
    - Component: 480i, 480p, 720p, 1080i, 1080p
    - VGA (RGBHV): From 640x480p up to 1920x1080p (VESA)
  - 8 Outputs distributes Component/VGA Video, Stereo or Mono Analog or Digital Audio, and Control outputs up to 1000 ft
  - Inputs support Analog Balanced/Unbalanced and Digital coaxial PCM audio
  - CAT5 pass-through ports for incremental expansion to up to 40x56 or 48x48.
- **Key Benefits:**
    - Compatible with any VGA or Component Video source device, and any major video resolution
    - Video, Audio, IR and RS-232 distribution via a single CAT5 cable up to 1,000 ft
    - Fully automatic CAT5 cable equalization when used with KD-VACRX or KD-VACWPRX Receiver Baluns
    - Full integration with Key Digital KD-VACRX and KD-VACWPRX Balun products
    - Full Audio control per output for Volume, Treble, Bass, Balance, and Lip-Sync (Delay)
    - Serial IR, Optical IR, Front Panel Control, Discrete Remote Codes, and RS-232. Supports major control systems such as AMX®, Colorado vNet®, Control4®, Crestron®, HomeLogic™, lifeIware™, RTI®, Savant, Universal®, Xantech® and others

## **KD-VACTX/RX**

Component/VGA Video, Analog Audio, Digital Audio, and IR/RS-232 Control over Single CAT5/6/7

### **Key Features:**

- Extends VGA (RGBHV) or Component (YPrPb) Video, L/R Analog, PCM, or Toslink Digital Audio, IR and RS-232 over a single CAT5/6/7 cable
- Supports all SD, HD, and VESA (VGA, SVGA, XGA, WXGA, SXGA, UXGA) resolutions up to 1080p (60Hz & 50Hz) SD & HD: 480i, 480p, 720p, 1080i, 1080p VESA / VGA (RGBHV): From 640x480p up to 1920x1200p
- Includes breakout cable for Component Video
- Auto Video Equalizer Compensation when used with KD-VACRX or KD-VACWPRX
- Optimized for UTP cables

### **Key Benefits:**

- Transmits VGA (RGBHV) or Component (YPrPb) Video signals up to 1,000 feet over a standard UTP CAT5/6/7 cable
- Can handle all standard audio formats, stereo formats, digital S/PDIF
- Can be used with other FatCAT Series™ Baluns, and the KD-MSCAT8X8 Hercules Series™ Switchers

## **KD-CATDA4TX**

Key Digital's KD-CATDA4TX is a Distribution Amplifier Transmit Balun.

### **Key Features:**

- Distributes VGA/Component Video and Stereo or Mono Audio to 4 CAT5/6/7 outputs up to 1000 feet
- Component (YPrPb): 480i, 480p, 720p, 1080i
- VGA (RGBHV): From 640x480p up to 1920x1200p
- Video/Audio Gain and EQ adjustment when used with KD-CVARX Receiver Balun

### **Key Benefits:**

- Connects a VGA/Component Video Source and Stereo or Mono Audio to 4 displays up to 1000 feet away over a single CAT5/6/7 cable
- Compatible with any VGA or Component Video source device, and accepts all video resolutions
- Full integration with Key Digital KD-CVARX

## Industry Leadership



**Mike Tsinberg, Founder and President of Key Digital, is a holder of 40 HDTV patents.**

- SMPTE fellow
- Participated with Emmy Award Winner for DVD technology development
- "Father of DVD" - Developed architecture and system software for world first Digital Video Disk (DVD) MPEG2 based authoring system - key DVD enabling technology

**Key Digital<sup>®</sup> Systems** is a CES award-winning developer and manufacturer of leading-edge technology for HDTV applications, delivering total video systems solutions. The company manufactures a wide range of digital video processing and video signal distribution solutions marketed broadly to the HDTV community, such as digital video and audio processors, switchers, distribution amplifiers, cables, adapters, and more. For more information, visit us at [www.keydigital.com](http://www.keydigital.com).