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Key Digital's Customizable and Scalable Enterprise AV™ Over IP Solutions

KD-IP1022 boasts independent video, audio, and USB routing

MOUNT VERNON, NY – December 18, 2019 – Key Digital, the leaders in digital video and control systems, introduces the Enterprise AV™ over IP [KD-IP1022ENC](#) and [KD-IP1022DEC](#). KD-IP1022 offers independent switching of video, audio and USB, all of which can be freely routed for multi-layered systems. The KD-IP1022 system requires just one encoder per video source and one decoder per video display, making it the optimal choice for building customizable and scalable video over IP solutions regardless of distribution, switching, matrixing needs, or video wall building capabilities.

“The KD-IP1022 builds upon the existing mature KD-IP922, but KD-IP1022 supports full independent audio, video, and USB routing. For example, with the 6-pin phoenix connector on the decoder you get the benefits of preamp DSP features like volume control, muting control, and delay up to 150 milliseconds. This really creates a full audio breakaway matrixing system separate from the HDMI video and the USB. It's perfect for integrating with an amplifier in the zone or in the rack,” said Jonathon Ferry, National Training Manager. “It is important to note that this system is not compatible with the KD-IP922 or KD-IP822. It is its own system and is considered the crème de la crème in its product family.”

The KD-IP1022 system enables Enterprise AV™ over IP to be used in place of traditional product categories including digital video matrix, digital video distribution system, digital video switcher, video wall controller, digital video extender, networked audio matrix, master controller, and KVM matrix. Utilizing a managed gigabit network switch, Key Digital's Enterprise AV™ Over IP enables video distribution, matrix switching, and extension. The encoder and decoder systems create video walls with up to 16 vertical and 16 horizontal monitors with video wall processing.

With independent USB routing, the KD-IP1022 systems are recommended for many operations center and command and control applications that are heavy on the USB KVM type feature-set and requirements. Operators can view and listen to any connected source and easily route keyboard and mouse plug-ins into PCs, Macs, NUCs, and NVRs to manipulate data or control those devices.

Independent audio matrixing allows Key Digital to offer a full networked audio system within its own Enterprise AV™ over IP ecosystem. Audio sources may plug-in on the KD-IP1022 encoder's HDMI input or analog audio input to then be routed to any HDMI and analog audio output on the decoder. Pre-amp functionality including volume, delay, and bass/mid/treble control make the audio feed ideal for feeding directly into amplifiers or audio DSPs.

The KD-IP1022 is fully licensed with compliancy up to HDCP 2.2 and backward compliant and features that latest HDMI technology such as 4K/UHD 4:2:0/8bit at 60 f/s. Supported lossless compressed digital audio formats include Dolby® TrueHD, Dolby® Digital Plus, Dolby Atmos®, and DTS-HD Master Audio™.

KD-IP1022 encoders and decoders feature analog audio de-embedding for ease of installation with audio systems. The analog audio breakout is on a balanced / unbalanced phoenix terminal, and features volume, muting, and three-band EQ DSP features.

The KD-IP1022 features 4K/Ultra HD resolution with support for 4096x2160 or 3840x2160 24/25/30Hz at 4:4:4/8 Bit or 60Hz at 4:2:0/8 Bit (10.2Gbps max bandwidth). With the 4K down-scale feature, the KD-IP1022 down-converts incoming 4K resolution to 1080p or 720p at each decoder effectively enabling monitors to always display content at optimal resolution.

The KD-IP1022 uses advanced EDID controls and comes with a built-in internal library with 15 EDID handshakes including 4K with HDR in addition to native EDID data copied from the output/display devices connected to the decoder. Key Digital's proprietary Full Buffer System manages TMDS re-clocking and signal re-generation, HDCP authentication to source and display, EDID control handshake, and Hot Plug Detection Voltage. Hot Plug Detection Controls enables integrator to choose if active signal voltage is forced to connected input devices.

When integrated with a compatible PoE network switch, the KD-IP1022 does not require a power supply. With redundant power connection the system has added reliability for non-PoE integration using the included power supply.

KD-IP1022 contains 3 multi-function ports that may be used as third-party control interfaces including Compass Control® Pro master controller, control extension via IP, or callable via KeyCode open API. The KD-IP1022 is controllable by all IR, RS-232 & TCP/IP supported control systems via open API including Key Digital's Compass Control® Pro or third-party control systems.

KD-IP1022 joins a suite of Key Digital IP enabled products that are now app ready. The engineers at Key Digital have created the Key Digital APP, KD-APP, an easy way for installers and users to switch inputs and control Key Digital systems all from an iOS device. KD-APP performs network scans, detects, and populates a pre-built GUI including image preview and finger drag video wall layout control. The Key Digital app can be downloaded free from the App Store.

About Key Digital®

Led by the “Father of DVD”, Mike Tsinberg, Key Digital® is an InfoComm, CEDIA, CES, and NAHB award winning manufacturer of professional distributed video and control system equipment.

Since 1999, Key Digital has lead the constantly evolving A/V industry by designing products that deliver industry leading quality, performance, and reliability to corporate, bar & restaurant, digital signage, education, government, and house of worship applications.

Key Digital products are designed and engineered in-house in Mount Vernon, NY. Superior quality, ease-of-installation, and versatility are the result of strenuous research, development, and testing. Expertise and unparalleled knowledge have created a unique hardware-software suite solution ideal for the consultants, designers, and installation firms of the A/V industry. Key Digital® is known to deliver best-in-class products based on quality, performance, and reliability.

For more information, visit our webpage at <http://www.keydigital.com>.