Extron Intros NAV Series

Written by Frederick Douglas
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Extron enters the AV-overIP market with a family of products to distribute and switch video, audio and USB 2.0 signals over standard ethernet networks, at speeds ranging from 40Mbps all the way to 10-gigabit-- the NAV series.

The products use the patented Extron PURE3 codec to deliver "visually lossless" (an actual compressing standard denoting a human with good eyesight should not detect any video signal loss) video over IP at resolutions up to 4K@60Hz with 4:4:4 chroma sampling. In addition, the PURE3 system incorporates "Intelligent Selective Streaming (ISS), a means to identify "low motion content" in the image to achieve low bitrates while maintaining performance.

The result, Extron says, is low bitrates while maintaining consistent performance-- as opposed to other video codecs, which make compromises in either image quality, bandwidth requirements or latency-- depending on the application or available network bandwidth.

NAV encoders and decoders support analog audio, embedded digital HDMI audio and AES67 audio-over-IP, facilitating integration with DMP 128 Plus audio DSPs and other IP-enabled audio components. NAV systems are HDCP 2.2 compiant for UHD content transmission. The input to all NAV encoders is HDMI and audio (with control port) and the output is the 1-gigabit or 10-gigabit network port. Decoders take the network signal and convert it back to HDMI and audio for the display.

For centralised management, a NAVigator System Manager provides an interface for management, configuration and control of NAV systems. NAVigator facilitates setup and configuration, and offers features for monitoring, diagnostics and troubleshooting, with a web interface complete with HTTPS support.

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"Our new NAV platform was purpose-built for the professional AV integrator, offering uncompromised quality and flexibility that works in virtually any environment," Extron says. "NAV empowers AV integrators to create mixed 1 Gbps and 10 Gbps Pro AV over IP applications that address a broader range of environments, delivering high-quality content with virtually no latency."

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