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Telairity Announces New BE8600 Flagship Encoder at NAB 2015: Time For Real Power in A Compact Package

Packing more compute capacity and three times the bandwidth in a chassis one-third the size of previous single-channel models, the next-generation BE8600 opens up new possibilities for real-time encoding

SANTA CLARA, Calif. – April 13, 2015 – Telairity, a global leader in encoding technology, today announced the debut of the BE8600 H.264/AVC video encoder, its new flagship encoder. A versatile go-anywhere, do-anything real-time encoder, the system is designed for broadcasting, cable casting and IPTV.

Offering virtually every encoding service required for today's HD transmissions, from low bandwidth 4:2:0 distribution encoding to high-end 4:2:2 contribution encoding, the BE8600 is also designed to provide a smooth upgrade path to tomorrow's 4K/Ultra TV H.265 encoding needs.

The new unit replaces the BE8500, the company's workhorse encoder used by video and Internet companies worldwide, with a fully reengineered and reconceived system that offers far greater performance in a unit roughly one-third its size.

"Not only have we managed to squeeze all the encoding technology from our earlier encoders into a package roughly one-third the size, but in the process we've also pumped up the power," said Harlan McGhan, vice president of marketing and sales. "It's like Weight Watchers developed a program with Gold's Gym that makes you much slimmer but, at the same time, much stronger."

The new system is on display during the National Association of Broadcasters (NAB) convention and exhibition in Las Vegas on April 13-16. The Telairity booth is located in South Hall (upstairs): SU7516.

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Designed around Telairity's new next-generation TVP840™ video processor (see separate release), the new BE8600 squeezes a full-width 18-inch 1RU system down to a half-width 12-inch 1RU system. Weight of the redesigned system drops by more than two-thirds from 18 lbs. to under 6 lbs. Power consumption drops even more sharply from 206 watts to under 60 watts: an improvement of more than three times.

Greatly reduced size is only a part of the story, however.

The all-new encoder also provides far greater H.264 capabilities for both contribution and distribution customers, while offering a clear upgrade path to 4K/UHD resolutions and H.265 compression. The BE8600 can do 4:2:2 H.264 contribution encoding at bitrates up to 75 Mbps, and provide options like I-frame-only encoding (similar to Motion JPEG 2000) for truly pristine quality source video free of all motion artifacts.

Using Telairity's exclusive newly optimized AVClairity™ firmware to maximize the new hardware's processing capabilities, users can take advantage of an all-new 16 GB/s memory interface and a better than 5X increase in overall I/O bandwidth.

For distribution customers, the new BE8600 encoders reach significantly lower bitrates than ever before. "We can now generate the same video quality that formerly required 6 Mbps of bandwidth at less than 5 Mbps," McGhan indicated. "For low bitrate customers, the bottom line is potentially significant savings on both bandwidth and storage costs" he added.

Telairity's new BE8600 continues to support all the usability and reliability features that have made the BE8500 a favorite choice for HD H.264 encoding including the company's unique "instant-on" power-up cycle and dual redundant power supplies.

About Telairity

Telairity produces innovative real-time standards-based video compression solutions for broadcasting, telephony, Internet services and aligned industries. The company's unique video processing technology, based on the Telairity TVP™ multi-core video processor architecture and associated direct-execution AVClairity™ video compression software, delivers the industry's lowest latency and best price/performance for real-time video encoding. The company's global headquarters is based in Santa Clara, Calif. Further information is available at www.telairity.com.

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