Macnica Americas and intoPIX bring a new FPGA reference design for UHD4K Live production over IP, using RTP transport and TICO lite compression at the SMPTE 2015 Annual Technical Conference and Exhibition.

The new design running on an Altera FPGA achieves low latency, visually lossless UHD4K transport over 10GbEthernet network infrastructures

CAMARILLO, Calif. – October 23, 2015 — Macnica Americas, a leading supplier of video over IP solutions, and intoPIX, a leading provider of compression technologies, will be demonstrating a new FPGA solution designed to carry UHD4K over IP in studio infrastructure, using TICO lightweight compression over RTP at the SMPTE 2015 Annual Technical Conference and Exhibition, Hollywood, California, at the Macnica Booth, Solano Canyon room, booth SC7.

The demonstration features an Altera FPGA development kit using an Altera HDMI 2.0 IP core with UHD 4K 60 frames per second input in 4:2:2, intoPIX TICO IP cores doing the encoding, and Macnica Americas IP cores doing the mapping over RTP and transport over 10GbE. A very low latency can be achieved with a minimum of 9 pixel lines in total and a compression up to 4:1.

 "Altera's close collaboration with our partners, intoPIX and Macnica, enables our customers to transport true 4K60 video over 10GbE as well as show the seamless translation to Altera's HDMI 2.0 IP. This is another significant step in making IP networks in a video workflow a reality." Umar Mughal, Altera, Director Broadcast Business Unit.

 "IntoPIX's TICO Codec is the perfect fit for RTP transport solutions. The video quality is truly visually lossless, and occupies the same bandwidth as a 1080p stream. We value our partnership with IntoPIX to bring flexible IP transport solutions to Broadcast customers." Marc Levy, Macnica Americas, CTO.

"Macnica Americas is the first provider of a full reference design solution based on TICO lightweight compression with RTP mapping to carry UHD-4K over 10GbE IP suitable for new IP-based studio infrastructures. intoPIX and Macnica Americas have already successfully worked together to bring a VSF TR01 JPEG2000 over TS and ST2022-1/2 design . With this new reference design, we are together again accelerating the market migration towards IP-based ecosystem." Said Gael Rouvroy, intoPIX C.T.O.

Resources:

- Macnica SMPTE 2022 products: http://www.macnica.com/web/americas/10g-video
- TICO FPGA-base products: www.intopix.com/TICO

About intoPIX

intoPIX is a leading image compression technology provider to audiovisual equipment manufacturers. We are passionate about offering people a higher quality image experience and have developed FPGA and ASIC IP-cores as well as software tools that enable leading-edge TICO Lightweight compression, JPEG 2000 compression, security, video over IP and hardware enforcement. More information on our company, customers and products can be found on www.intopix.com

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About Macnica Americas

Macnica Americas is a design services and IP provider with expertise in video transport solutions. Macnica's IP portfolio includes solutions for Broadcast Video and Pro AV (specifically SMPTE 2022-1/2/5/6/7 IP) as well as high speed networking and embedded applications. Find out more about Macnica Americas products and design services at www.macnica.com.