



EIZO Releases 6-channel XMC Graphics/GPGPU Card for Simultaneous Capture of Analog/Digital Video and Audio with Low Latency

- *EIZO's Condor NVP2102AxX card has a chip-down NVIDIA Quadro P2000 (GP107) design supporting four 3G-SDI inputs and two CVBS (NTSC/PAL) inputs for customers who want to combine legacy video with newer digital video formats in high-end surveillance applications*
- *The Condor NVP2102AxX card enables direct video capture to GPU memory using GPUDirect RDMA for high-speed data transfer and exceptionally low latency*

Altamonte Springs, Florida, May 26, 2020 – EIZO Rugged Solutions Inc., a provider of ruggedized graphics and video products, released the Condor NVP2102AxX – a new 6-channel rugged XMC graphics card that simultaneously captures analog/digital video and audio with exceptionally low latency.

The Condor NVP2102AxX card has a chip-down NVIDIA® Quadro® P2000 (GP107) design supporting four 3G-SDI inputs, two CVBS (NTSC/PAL), and two audio inputs, as well as two 3G-SDI and two DVI or DisplayPort video outputs. This rugged XMC graphics card embodies high performance with its 768 CUDA cores and 4GBytes of GDDR5 memory. At maximum power consumption, the Quadro P2000 GPU delivers 2.3 TFLOPs of single-precision floating point compute performance (FP32).

The new XMC card is designed for customers who want to combine legacy video with newer digital video formats in high-end surveillance applications. The Condor NVP2102AxX card is an all-in-one solution with the ability to capture, process, encode, decode, display, and stream video data. The card also supports CUDA and OpenCL based GPGPU computing, AI processing (artificial intelligence), deep learning and H.265/H.264 encoding/decoding.

High-speed data transfer and exceptionally low latency levels are achieved with the Condor NVP2102AxX graphics processor by optimizing NVIDIA's GPUDirect RDMA (remote direct memory access) feature. This enables video data to be sent over PCIe, bypassing system memory, directly to GPU memory for analysis/processing. In GPU memory, the applications can do processing such as image analysis, image enhancement, 360-degree video stitching, sensor fusion, and target detection using the GPGPU (CUDA/OpenCL™) technology.

Selwyn L. Henriques, president and CEO of EIZO Rugged Solutions, said: "This new product offers a bridge for customers who want to combine legacy video with the newer, digital video formats. For example, one of our military airborne customers was looking to upgrade a gimbal/sensor pod running analog video to a digital solution. This dual analog/video graphics card provided that transition in a single card solution while dramatically lowering CPU overhead, reducing latency, and delivering improvements in data transfer times."

Built to survive in harsh environments, the Condor NVP2102AxX is tested to withstand high temperatures, shock and vibration (MIL-STD-810G). It is available in conduction-cooled or air-cooled variants with rear XMC I/O on Pn6. The rear XMC pin-out is compatible with VPX systems that follow VITA 46.9 x12d+x8d+24s. 3U VPX and PCIe™ form factors are supported by carrier boards.

EIZO Rugged Solutions offers flexibility and responsiveness to customer requirements through the customizability of its products. The Condor NVP2102AxX customization options include support for other video input and output formats such as additional DVI, DisplayPort, STANAG 3350, or ARINC 818. Special analog Sync-on-Green video formats such as RS-343 are also available. The XMC IO can be re-routed as PMC IO or to the front panel.



Press Release

For more information about the Condor NVP2102AxX or any other product from EIZO Rugged Solutions, please visit www.eizorugged.com, email condor@eizo.com or call +1 (407) 262-7100.

Media photo:

www.eizorugged.com/press/releases/images/Condor_NVP2102AxX_press.jpg

Product datasheet:

www.eizorugged.com/support/brochures/pdfs/Condor_NVP2102AxX.pdf

Media contact:

Carlie Sutherland
EIZO Rugged Solutions
Phone: +1 (407) 262-7100
Email: carlie.sutherland@eizo.com

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About EIZO Rugged Solutions

EIZO Rugged Solutions Inc. has been developing graphics and video solutions for military, air traffic control, and other embedded applications for over 30 years. The ISO9001:2015 certified company offers a range of commercial off-the-shelf (COTS) products targeted at video capture, processing, display, compression, streaming, GPGPU, Artificial Intelligence (AI), video format conversion, and data archival. The company designs and manufactures its core MIL-STD-810G graphics and video products in the USA, serving customers in defense, security, ISR, aerospace, avionics, transportation, maritime, and industrial markets. Its rugged monitors offer the high quality, reliability, and long-term availability needed to meet the stringent requirements of defense and other niche markets.

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