

Title: Network-Centric EcoSystem Architecture for Extreme Performance FPGA-based processing, data acquisition and data recording

Contact: Keld Petersen, keld.petersen@annapmicro.com, 508-282-2410 (mobile)

Demo Abstract:

Annapolis Micro Systems will show their advanced products and capabilities. They will show how their OpenVPX Ecosystems can provide networking, processing, storage and configurations in a 40 GigE networked environment.

Wild40 Ecosystem for 6U OpenVPX is an integrated system architecture for high-end data acquisition, processing and storage. It revolutionizes the OpenVPX environment with the latest FPGAs from either Xilinx or Altera, 40 Gbps Fat Pipes on the backplane, 40GbE networking with our 4 Tbps switch card and a unique hot swappable payload capability. Add Annapolis high-speed storage boards – Up to 9.3 TB per slot, 4.5 GB/sec write per slot.

Web address: www.annapmicro.com/product-category/wild40-ecosystem-opensvx-6u

Wild40 Ecosystem for 3U OpenVPX is a compact integrated system architecture for high-end data acquisition, processing and storage. Also here Annapolis offers the latest FPGAs, a 40 Gbps backplane and hot swappable payload cards in a compact 3U system. Annapolis' unique hot swappability is also offered in this architecture. You can also add our storage boards – 4 TB per slot, 4 GB/sec write per slot.

Web Address: www.annapmicro.com/product-category/wild40-ecosystem-opensvx-3u

Wild40 Ecosystem for PCIe offers an integrated system architecture for PCIe with high performance FPGA cards and high bandwidth servers to connect all system nodes.

Web address: www.annapmicro.com/product-category/wild40-ecosystem-for-pcie

Analog Capability: All Ecosystems have mezzanine sites for ADCs up to 5 GSps and DACs up to 4 GSps. Annapolis also offers a unique high performance DRFM card with ultra-low latency <21 ns.

Development Tools: All Annapolis products are supported by our patented CoreFire tool which shortens FPGA application development time by an order of magnitude. Develop an entire application with no VHDL involved,

Or you can use our rich VHDL package that offers interfaces too all of our on-board devices.

Web address, CoreFire: www.annapmicro.com/products/corefire-next/

Web address, VHDL: www.annapmicro.com/products/vhdl/

Low Risk/High Flexibility: Annapolis EcoSystems offer the utmost in low risk and flexibility. Each EcoSystem consists of pre-integrated components proven to work seamlessly together in Annapolis high-performance chassis offering 160 Gbps slot-to-slot performance. Annapolis offers the latest FPGAs from either Altera or Xilinx, up to three FPGAs per board, I/O configurability with many analog and digital mezzanine cards and many other options.

Annapolis Micro Systems has over 30 years of experience in our field, making us experts in putting more processing power and available data bandwidth into an application than anything else available. Everything we make is built in the USA in our own complete manufacturing facility.

We will have these high performance products and more on display to answer questions from the audience.