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**Advantech launches Freescale® QorIQ®-based CompactPCI blade**

***New CPCI platform optimizes performance and I/O configurability in low-power, extended temperature applications***

**February 24th 2014, Irvine, CA** – Advantech today added the Freescale® Semiconductor QorIQ® architecture to its expanding 6U CompactPCI product line-up with the announcement of the CPCI-8220, an intelligent I/O carrier blade based on the power-efficient, multicore Freescale QorIQ P2040 processor. The blade is designed for operation in rugged industrial and defense environments where harsher environmental specifications are required, such as extended operating temperatures, shock and vibration. The blade is already being commissioned by Advantech customers in several applications, namely railway infrastructure, smart grid power control, and simulation within the aerospace industry. The blade comes with two PMC/XMC slots designed to support high performance mezzanine cards in air cooled systems.

For customers already deploying applications based on previous generation Freescale PowerQUICC® III designs, the CPCI-8220 offers an upgrade path and a bridge to newer generation technology for increased performance and greater product longevity.

"Today's announcement is a further endorsement of Advantech's commitment to the CompactPCI marketplace" said Eddie Lai, VP Business Development, Advantech Networks & Communications Group. "We are dedicated to ensuring that customers who have made significant long-term investments in CompactPCI continue to see regular new technology insertions and reap the benefits of a broader supplier ecosystem".

The QorIQ P2040 (to 1.2 GHz) and higher performance pin-compatible P2041 (to 1.5 GHz) quad-core processors, built on Power Architecture® technology, incorporate the high-end architectural features pioneered in the P4 platform, while delivering optimized power efficiency and a smaller form factor in a quad-core solution. They are software-compatible with members of the P1 family and all devices in the P3, P4 and P5 families. This enables customers to scale software up and down the QorIQ product line. The onboard P2040 combines four Power Architecture® processor cores with high-performance datapath acceleration logic and network and peripheral bus interfaces. The blade also supports higher frequency P2041 processors when more compute performance is required.

In addition to the low thermal design power, onboard soldered ECC memory allows the CPCI-8220 to be used in mission critical applications where memory reliability is mandatory. The blade supports 1GB soldered DDR3 ECC memory, with 2GB or 4GB builds optional. 2 x 4MB Redundant SPI Flash and 2 x 128MB of NOR flash enable backup and update capabilities to be employed. A further 4GB NAND Flash serves as a boot device while an onboard 32GB SD eMMC offers sufficient application and storage capacity for a broad range of embedded applications.

The board supports both PMCs and XMCs to provide the system integrator with the widest choice of COTS modules to choose from. These allow expansion for applications requiring acceleration and offload, communications or field bus I/O, FPGA processing, graphics as well as A-D and D-A interfaces. Advantech will provide specialized customer support for interoperability verification depending on choice of mezzanine and application requirements.

The CPCI-8220 also supports five gigabit Ethernet ports, USB ports, PCI Express I/O, PMC I/O, XMC I/O, and RS-232/RS-422/RS-485 serial ports on the front panel or J5 connector. A rear transition module, the CPCI-8250 provides rear panel connectivity with four 100/1000Base-T LAN Ports, multiple RS232/422/485 serial interface and two USB 2.0 interface. Rear serial I/O is managed by an onboard PLX OXPCIe958 QUART.

For system management, Advantech provides IPMI middleware, including OpenIPMI and implements IPMI 1.5 with HPM.1 upgrade support. along with OEM commands to support channel configuration.

The CPCI-8220 is a powerful, flexible solution for the next generation of embedded CompactPCI applications. Operating system support for Wind River VxWorks™ and Wind River Linux Board Support Packages (BSPs) is available.

The CPCI-8220 is available now for mass production.

Further details can be found at [www.advantech.com/nc](http://www.advantech.com/nc)

**About Advantech** – Founded in 1983, Advantech is a leader in providing trusted, innovative products, services, and solutions. Advantech offers comprehensive system integration, hardware, software, customer-centric design services, embedded systems, automation products, and global logistics support. Our mission is to enable an intelligent planet with embedded computing products and solutions that empower the development of smarter working and living. With Advantech, there’s no limit to the applications and innovations our products make possible. For telecom and networking, Advantech provides business-critical hardware to the leading equipment manufacturers. Our standard and customized products are embedded in OEM equipment that the world's network infrastructure depends upon.

Website: [www.advantech.com/NC](http://www.advantech.com/NC)