



## **FOR IMMEDIATE RELEASE**

### **AdvancedIO® Systems Announces Industry's First Rugged Dual-channel 10-Gigabit Ethernet XMC Family**

#### **V1100 Family offers optimized real-time, high-bandwidth connectivity for harsh environment defense and industrial applications**

**Critical Embedded Systems, Scottsdale, AZ, May 5, 2008** — AdvancedIO® Systems, the leading provider of configurable 10-Gigabit Ethernet (10GbE) connectivity for real-time embedded systems, today announced the V1120, a dual-channel 10-GbE and the first member of the V1100 family, the industry's first conduction-cooled XMC products for 10GbE connectivity and packet processing. The V1100 family of rugged 10GbE modules address emerging requirements for open-standard, extremely high-bandwidth networking and point-to-point connectivity in high-performance real-time systems in harsh environments.

The V1120 uses a Xilinx Virtex-5 FPGA to optimize its performance and provide the functionality and flexibility required by high-performance real-time processing and recording applications. To accommodate large line-rate bursts of incoming sensor data, the V1120 can buffer up to 115,000 jumbo frame Ethernet packets in its onboard SDRAM memory. Additional interface signals are provided to facilitate precise time synchronization and other application-specific functionality that requires deterministic, low latency access to the packets.

With unmatched flexibility and performance, the V1120 facilitates stable, rapid deployment of 10GbE technology into high-performance, real-time, sensor data flow applications such as signals intelligence, radar and high-speed record/playback. Boasting two 10GbE interfaces in a conduction-cooled package, the V1120 is designed for an extended temperature range of -40°C to 85°C.

"Over the past year, customers have been asking for a conduction-cooled version of our technology to provide dependable 10GbE connectivity for systems operating in harsh environments with excessive heat and no air cooling," said Rob Kraft, AdvancedIO Systems' VP of Marketing. "Our customers need the standard interconnect advantages of 10GbE, but it's the advantages that our offload and



streaming technology bring to real-time 10GbE that make the difference for their high-performance applications.”

V1100 is a family of rugged open-standard form factor modules connecting real-time embedded systems to each other or to extremely high-speed Ethernet networks. Following the widely used VITA 42.3 XMC mezzanine module format, V1100 integrates with standard off-the-shelf platforms, such as VXS and VPX blades, providing system developers with multiple platform options. The V1100 family supports AdvancedIO’s udpXG™ protocol offload and streamXG™ data streaming acceleration cores and software, specifically designed for real-time applications. For easy integration and future software portability, AdvancedIO’s V1100 supports a standard sockets-based software API.

With two 10GE interfaces, the V1120 meets the needs of systems that cannot tolerate front-panel connections. The V1120 routes the 10GbE interfaces through Pn6, the standard secondary XMC connector. When the V1120 is placed on a host carrier card with an XMC site, the carrier routes the high-speed signals from Pn6 to the backplane. The V1120 uses PCI Express® running over the primary XMC connector, Pn5, to provide a high-bandwidth interface to the host CPU. Upcoming members of the V1100 family will address different rugged requirements and options.

**Availability:**

The first member of the V1100 family, the V1120, will be available Q4 2008. For more information, please contact [sales@advancedio.com](mailto:sales@advancedio.com) or visit AdvancedIO’s web site at [www.advancedio.com](http://www.advancedio.com).

**About AdvancedIO Systems**

AdvancedIO Systems Inc. is the market leader in configurable 10GbE connectivity and packet processing solutions for the embedded systems market. AdvancedIO’s product family, including the market’s first 10GbE interface in the industry standard XMC form factor, delivers outstanding packet-processing performance in conjunction with application flexibility. AdvancedIO provides a unique solution for high-performance defense and telecom applications and for developers seeking to implement and benefit from standards-based, high-speed fabric connectivity.



AdvancedIO Systems is a privately held company established in 2004. The company is located in Vancouver, Canada. For more information, please visit [www.AdvancedIO.com](http://www.AdvancedIO.com).

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