

Kontron debuts portfolio of AdvancedMC Intelligent IO modules based on next-generation Cavium Networks OCTEON™ Plus CN56xx multi-core packet processors

New Kontron AM42xx AdvancedMC series enables a proliferation of potential “NEP-Ready” Kontron platforms dedicated to load-balancing, secure DPI, content-aware and QoS over Ethernet applications



Poway, CA, June 12, 2008 – Kontron, a leading global provider of standard-based and custom embedded and communications solutions, debuted its family of AdvancedMC packet processing modules optimized for layer 4 to layer 7 data and security processing, targeting network equipment providers who design 3G/4G BTS, RNC, xGSN and Media Gateways. The Kontron AM42xx series of AdvancedMC Intelligent IO modules are designed with the Cavium Networks OCTEON Plus CN56xx packet processors with 12 64bit MIPS cores with up to 14.4 Billion MIPS64 instructions per second (14.4 GOPS). They are the first to be designed with high-density, high-bandwidth serial IO technology compared with legacy parallel IO technology.

What emerges is a much more cost-effective AdvancedMC module design that ensures manufacturers a competitive advantage in taking next-generation equipment to market.

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“This is incredibly significant for Kontron,” said Marc Leclaire, Kontron AdvancedTCA-AdvancedMC product manager. “The new Kontron AdvancedMC NPU modules are one of the first with the CN56xx multi-core processors with GbE and 10GbE support, completely diversifying both our AdvancedTCA and MicroTCA integrated platform portfolio. They will help our clients build a broader range of dedicated security, load-balancing, and content- or application-aware processing applications. The choice of the OCTEON Plus CN56xx series of Cavium Networks packet processors is a perfect fit for designing a complete and highly versatile AdvancedMC module that is both cost-effective and more advanced than other competing products.”

Kontron is offering two modules – AM4204 with 4x 1GbE ports to the front and software configurable Interfaces to the Fabric side (PCIe, 4x 1GbE or XAUJ); and the AM4220 with 2x 10GbE to the front and PCIe to the fabric side.

“Working with a leading AdvancedTCA and MicroTCA vendor such as Kontron enables Cavium Networks to be part of an ever-growing COTS marketplace that is meeting the customer challenges for exceptional performance within restrictive power and space environments,” said Tasha Castañeda, Senior Strategic Alliance Manager at Cavium Networks. “Combining the high-density, high-bandwidth OCTEON Plus multi-core processors with Kontron’s expertise in the AdvancedMC module technology will provide clients a wealth of pre-integrated platform designs.”

As carriers grow their networks to keep pace with more subscribers relying on bandwidth intensive applications, there is equally a significant investment in network security on a worldwide scale. The demand for deep packet inspection and other application- or content-aware applications will intensify exponentially.

The introduction of the Kontron AM42xx series of AdvancedMC GbE/10GbE Intelligent IO modules is a major milestone in the Kontron AdvancedTCA 10GbE portfolio. An exciting number of new design opportunities unfold when the Kontron AM42xx AdvancedMCs are, for example, integrated with a Kontron AT8904 AdvancedTCA 10GbE switch. They provide exceptional added functionality such as load balancing for Web Server, SIP Server, SSL Offload, and content- or application-aware processing applications. Likewise, they can support QoS over Ethernet for IPTV, video on demand and other broadband media services. When integrated with a general purpose AdvancedTCA processor node, like the Kontron AT8020, the Intelligent IO module also provides added functionality for wireless and wireline security packet inspection applications. In either case, NEP clients achieve the highest density platform design by not losing an AdvancedTCA slot for the aforementioned applications.

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The versatility of these Intelligent IO modules even extends to communication applications in the defense market. The Kontron AM42xx features a memory protection functionality, which makes it possible to HW write protect all onboard Non-Volatile memories.

Product Pricing and Availability

Kontron AM42xx AdvancedMC Intelligent IO Modules – RoHS compliant

Pricing: OEM pricing upon request

Availability: Q3, 08.

For more information, please visit <http://www.kontron.com/advancedmc>

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About Cavium Networks

Cavium Networks (NASDAQ: CAVM) is a leading provider of highly integrated semiconductor products that enable intelligent processing in networking, communications, storage and security applications. Cavium Networks offers a broad portfolio of integrated, software-compatible processors ranging in performance from 10 Mbps to 10 Gbps that enable secure, intelligent functionality in enterprise, data-center, broadband/consumer and access & service provider equipment. Cavium Networks processors are supported by ecosystem partners that provide operating systems, tool support, reference designs and other services. Cavium Networks principal offices are in Mountain View, CA with design team locations in California, Massachusetts and India. For more information, please visit: <http://www.caviumnetworks.com>

About Kontron

Kontron designs and manufactures standard-based and custom embedded and communications solutions for OEMs, systems integrators, and application providers in a variety of markets. Kontron engineering and manufacturing facilities, located throughout Europe, North America, and Asia-Pacific, work together with streamlined global sales and support services to help customers reduce their time-to-market and gain a competitive advantage. Kontron's diverse product portfolio includes: boards and mezzanines, Computer-on-Modules, HMIs and displays, systems, and custom capabilities. Kontron is a Premier member of the Intel® Embedded and Communications Alliance. The company is a recent three-time VDC Platinum vendor for Embedded Computer Boards. Kontron is listed on the German TecDAX stock exchange under the symbol "KBC". For more information, please visit: www.kontron.com.

For more information:

Reader contact EMEA:

Kontron AG
Oskar-von-Miller-Strasse 1 /
85386 Eching/Munich
Germany
Tel: +49 (8165) 77-777
Fax: +49 (8165) 77-279
<http://www.kontron.com>
sales@kontron.com

Editor contact EMEA:

Michael Hennen
SAMS Network
Zeichenstraße 29
52146 Wuerselen
Germany
Tel.: +49 (0)2405-45267-20
Fax: +49 (0)2405-45267-21
michael.hennen@sams-network.com

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Reader contact Americas:

Kontron America Inc.
14118 Stowe Dr
Poway, CA 92064-7147
United States of America
Tel: +1 (888)-294-4558
Fax: +1 (858) 677-0898
sales@us.kontron.com
www.kontron.com

Editor contact Americas:

Richard Pugnier
Kontron America Inc.
14118 Stowe Dr
Poway, CA 92064-7147
United States of America
Tel:+1 (858) 623-3006
Fax:+1 (858) 677-0615
richard.pugnier@us.kontron.com

Cavium Networks contact:

Angel Atondo
Marketing Manager
Cavium Networks
805 East Middlefield Road,
Mountain View, CA 94043
Tel: +1 650-623-7033
angel.atondo@caviumnetworks.com
<http://www.caviumnetworks.com>

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