Kontron and AppliedMicro Unveil 64-bit ARMv8-based Converged Infrastructure Platform for NFV and SDN

*Collaboration the Result of Strong Carrier Demand for NFVi platforms
that Offer Higher Compute Density and Lower Power Consumption*

Barcelona, Spain, February 22, 2015 – Kontron, a leading global provider of Embedded Computing Technology (ECT), and Applied Micro Circuits Corporation (Nasdaq:AMCC), a global leader in computing and connectivity solutions, today unveiled a new collaborative hardware design to the Kontron SYMKLOUD Series of converged infrastructure platforms. Communication service providers (CSPs) can now achieve further reductions in their capital and operating infrastructure expenses for services deployed on virtualized cloud networks.

The ARM$^®$-based SYMKLOUD platform will be on display at the Kontron booth (5H41; Hall 5) and the ARM booth (6C10; Hall 6) during Mobile World Congress, Feb. 22 – 25, 2016.

High Density ARM-based Modular Server
The SYMKLOUD platform portfolio now includes a 10GbE modular server designed with two AppliedMicro X-Gene® system-on-chip (SoC) processors based on the 64-bit ARM®v8-A architecture – widely known for its server-class performance and mobile-level power efficiency.

Each 2U SYMKLOUD enclosure has a capacity of nine modular, hot-swappable servers, which translates into a configuration of up to 144 X-Gene cores, or, 3,024 cores in a fully populated 42U rack – a massive 97 percent increase in space efficiency compared to traditional dual socket 1U commodity servers.

ARM-based Hardware Designed for a Software-Defined World
A SYMKLOUD converged infrastructure platform is designed explicitly to support operator services delivered on commercial-off-the-shelf (COTS) high availability infrastructure deployed using software defined networking (SDN) and network functions virtualization (NFV) technologies. Its modular and short-depth footprint packs in high density compute, storage and a 20GbE switch fabric that supports bare metal SDN switching for legacy and OpenFlow traffic.

In addition to a low power envelope, the X-Gene processor doubles addressable memory to 64GB per CPU and its higher memory bandwidth brings total memory per modular server to 128GB. This underpins the necessity to have strong single threaded processor performance to ensure high bandwidth and low latency for virtualized network functions (VNFs) in the carrier cloud.

The SYMKLOUD AppliedMicro/ARM solution is an open opportunity for VNF vendors to run NFV applications seamlessly without any customization of code. With full virtualization support and line rate performance, the SoC framework of X-Gene includes mission critical RAS features, as well as role-based authorization, authentication and service continuity.

Potential use cases include: NFVi as a Service; VNF as a Service; vMobile Core Network and vIMS; vMobile base station; vCPE/home environment; and vCDNs.

"The ARM-based SYMKLOUD platform is another impressive milestone in showcasing the advantages of the ARM server and network infrastructure ecosystem," said Charlene Marini, vice president, segment marketing, ARM. "The collaboration between AppliedMicro and Kontron will further expand the realm of what is possible for carriers and data centers seeking the scalability and workload-optimized benefits enabled by the ARM architecture."

"The movement to ARM server architecture for the telco cloud has reached another major milestone," said Kumar Sankaran, associate vice president, software and platform engineering at AppliedMicro. "As a new valued partner to the ARM community, Kontron brings a tremendous amount of experience from years of carrier grade COTS hardware designs dedicated to the telecom industry."

"Carrier clients and ISV partners are taking a second look at ARM-based 64-bit silicon to drive their business forward," said Robert Courteau, executive vice president, communications BU, Kontron. "To continually improve how we make it easier for our CSP customers to evolve with rapid market changes demands new levels of service agility. Our work with AppliedMicro enables Kontron to offer effective technological choices - at the right time - for the best results."

Be sure to visit Kontron, AppliedMicro and ARM during:
Mobile World Congress 2016
Kontron Stand 5H41 – ARM Stand 6C10
February 22-25, 2016 | Barcelona, Spain
http://www.mobileworldcongress.com/

About AppliedMicro
Applied Micro Circuits Corporation (AMCC) is a global leader in computing and connectivity solutions for next-generation cloud infrastructure and data centers. AppliedMicro delivers silicon solutions that dramatically lower total cost of ownership. Corporate headquarters are located in Santa Clara, California. www.apm.com.

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About Kontron
Kontron, a global leader in embedded computing technology and trusted advisor in IoT, provides a complete and integrated portfolio of hardware, software and services. Kontron creates many of the standards that drive the world's embedded computing platforms, bringing to life numerous technologies and applications. The result is an accelerated time-to-market, reduced total-cost-of-ownership, product longevity and the best possible overall application with leading-edge, highest reliability embedded technology.
Kontron is a listed company. Its shares are traded in the Prime Standard segment of the Frankfurt Stock Exchange and on other exchanges under the symbol "KBC".
For more information, please visit: www.kontron.com

About Kontron in Communications
Kontron designs carrier-class and cloud infrastructure solutions that bring any application to life for the new world of software defined networks (SDN) and network functions virtualization (NFV). We are experienced system architects who match our clients' network application requirements with the right hardware and software solutions for the 4G LTE Evolved Packet Core, Content Delivery Networks, and Cloud infrastructure. By partnering with Kontron, service providers and their ISV partners can enter new markets with greater speed, confidence and operational efficiency. For more information, please visit www.symkloud.com or www.kontron.com/communications. Kontron is a Corporate Sponsor of the OpenStack Foundation, and is an ecosystem member of the Alcatel-Lucent CloudBand™ Ecosystem Program, and the Wind River Titanium Cloud NFV partner program.

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