

» For Immediate Release «

Kontron 10G ATCA® open modular platform enhanced for designing 4G LTE and carrier cloud network infrastructure

Kontron OM9141-10G delivers 320 Gbps non-blocking switching bandwidth plus enriched switch management software for Layer 2/3+ network equipment designs



Montreal, Canada, January 25, 2011 — Kontron today announced the full production availability of its [10G ATCA® open modular platform OM9141-10G](#), featuring new advanced and faster bladed data transport, and switching and system management hardware. Kontron's 10 Gigabit Ethernet (GE) ATCA® open modular platform is a starting point for telecom equipment manufacturers (TEMs) to build on a common platform a multitude of new equipment configurations using CPU, NPU, DSP, storage and specialized 3rd-party ATCA®-based line cards that meet the requirements for 3G, 4G LTE, WiMAX, GPON, IPTV and carrier cloud network elements.

Each Kontron 10G ATCA® open modular platform OM9141-10G includes redundant power entry modules, cooling infrastructure with hot swappable redundant fans, and second generation 10GbE switching capabilities based on the [Kontron 10G ATCA® switch AT8910](#). Shelf Management is built-in with redundancy and interoperability-tested Shelf Manager Cross Connects as per PICMG® specification, and an optional Kontron COM Express® dual-core module is available on the Kontron AT8910 for centralized system management with a standards-based HPI implementation. A telco alarm panel provides telecom grade external system alarm notification.

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Equipment vendors assessing new system-level projects for a wide assortment of Core, Metro and Carrier Data Center network applications may start designs on the Kontron 10G ATCA® open modular platform OM9141-10G for 3G and 4G LTE Network Elements, GPON/EPON and Optical Transport Network Elements, QoS and Test Platform Network Elements, and Service and Content Delivery platforms with Security and DPI functionality.

Next generation switch management software

The very mature and stable Kontron switch management software suite supports a comprehensive list of core features and protocols including, among others – QoS, IPv4 and IPv6 routing, IPv4/IPv6 multicast routing and selected protocols.

A sampling of supported protocols include: Ethernet multicast switching protocols and functions (such as GVRP, GARP, RSTP, LAG, IGMP Snooping, DiffServ, ACL); IPv4 unicast and multicast routing, unicast forwarding protocols & functions (such as ARP, OSPF, VRRP, RIP); multicast forwarding protocols & functions (such as PIM-DM, PIM-SM, DVMRP, IGMP); IPv6 unicast and multicast routing; and, IPv6 unicast forwarding protocols and functions (such as discovery, OSPFv3, MLD, 6to4/4to6 tunneling).

On top of this software suite, Kontron has developed several other software extensions to further enhance the Kontron 10G ATCA® switch AT8910, including:

Ethernet Switching

Meshed multicast, multicast and RSTP interoperability, same port bridging, link aggregation, LLDP, and lossless Ethernet.

IP Routing

IPinIP tunneling, automatic tunnel failover, multicast.

Enhanced Multicast support

Support for fully meshed Layer 2 multicast networks with IGMP snooping; interoperability of RSTP with IGMP snooping; PIM-DM enhancements for multicast on LAGs.

Management Enhancements

Access control lists, monitoring, SNMP, provisioning, diagnostics, reliable field upgrades, location based DHCP server, file services, watchdog, real time clock.

Enhanced Optical/Copper module support

SFP+, SFP, auto detection and selection.

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Hardware Monitoring/Management

Monitoring and access of local and remote sensors and IPMI information, access to IPMI System Event Log (SEL), available through Kontron SNMP MIB, generation of SNMP traps based on SEL entries and filter rules.

Kontron 10G ATCA® switch AT8910

The 10G ATCA® switch AT8910 represents Kontron's sixth generation in ATCA® switching products, and supports 14x 10GbE nodes and one redundant hub to meet NEBS and ETSI standards. Front I/O connections include: 4x 10GbE Front Fabric Uplinks; 4x 10GbE Front Base Uplinks; and 1x GE Mgmt. and 2x Serial Console. Kontron's switch management solution includes a Hypervisor implementation for control and data plane switch management separation. The Kontron AT8910 also comes with an optional COM Express® dual-core module to provide the infrastructure for centralized system management.

The switch is compatible with the Kontron Rear Transition Module RTM8940 which supports Synchronous Ethernet with up to 80Gbps uplink capability on the Fabric Interface – 2x QSFP configured as 8x 10G uplinks using 2 active copper cables; or, 1x QSFP configured as 4x 10G using one active copper cable, plus 4x SFP+ uplinks. Telco clocking is standard via the RTM and Kontron offers the option to remove the QSFP uplinks and/or Telco clocking on demand.

Reducing the 'Total Cost of Ownership'

In the rush to deploy new network solutions to the carrier market, TEMs cannot afford to waste valuable resources on non-core competencies. From initial product conception to market deployment, Kontron alleviates this challenge by working with TEMs to manage the complex validation and integration of all building-block hardware and software components. The result is clients remain focused on developing their key application software innovations for deployment on the most appropriate carrier grade, integrated platform. Kontron's comprehensive lifecycle management to supply flexible and seamless next generation migrations also ensures the "future proofing" of applications and a much lower overall cost of ownership.

The Kontron 10G ATCA® open modular platform OM9141-10G is available now.

Kontron OM9141–10G Open Modular Core - Non Redundant

1xShMC, 1xAT8910, 1xRTM8940, 1xCOM-Express®

Kontron OM9141 – 10G Open Modular Core – Redundant

2xShMC, 2xAT8910, 2xRTM8940, 2xCOM-Express®

Kontron AT8910 10G Switch – Available as a standalone unit

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For more information on the Kontron 10G ATCA® open modular platform OM9141-10G, please go to:
<http://www.kontron.com/products/systems+and+platforms/advancedtca+integrated+platforms/om914110g.html>

For more information on the Kontron 10G ATCA® switch AT8910, please go to:
<http://www.kontron.com/products/boards+and+mezzanines/advancedtca/hubsswitches/at8910.html>

For more information about AdvancedTCA™, please go to: <http://www.kontron.com/AdvancedTCA>

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About Kontron

Kontron is a global leader in embedded computing technology. With more than 30% of its employees in Research and Development, Kontron creates many of the standards that drive the world's embedded computing platforms. Kontron's product longevity, local engineering and support, and value-added services, helps create a sustainable and viable embedded solution for OEMs and system integrators. Kontron works closely with its customers on their embedded application-ready platforms and custom solutions, enabling them to focus on their core competencies. The result is an accelerated time-to-market, reduced total-cost-of-ownership and an improved overall application with leading-edge, highly-reliable embedded technology.

Kontron is listed on the German TecDAX stock exchange under the symbol "KBC". For more information, please visit:
<http://www.kontron.com/>

PR online: <http://www.kontron.com/about-kontron/news-events/kontron+10g+atca+open+modular+platform+enhanced+for+designing+4g+lte+and+carrier+cloud+network+infrastructure.5540.html>

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