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Latest Intel® Xeon® processors available on new 6U CompactPCI® boards from Concurrent Technologies

PP 66x/07x High Performance 6U CompactPCI SBC

March 30, 2009 – Concurrent Technologies has released the PP 66x/071 family of 6U CompactPCI boards, one of the first product ranges to feature the quad core 2.13 GHz Intel® Xeon® processor L5518 or the dual core 2.0 GHz Intel® Xeon® processor L5508, both of which were released today by Intel. Based on 45nm process technology and the new Intel® micro-architecture, formerly codenamed “Nehalem”, both processors are from the Intel® embedded roadmap which offers at least seven year availability. With up to 64 Gbytes of DDR3-1066 ECC SDRAM, two 10 Gigabit Ethernet ports, and several SAS and SATA300 disk interfaces, the PP 66x/071 family has one of the highest specifications available to 6U CompactPCI users today; the boards are particularly suitable for CPU intensive processing applications within the telecommunications, defence and homeland security market sectors.

The PP 66x/071 family is based on the Intel® Xeon® 5500 Platform, consisting of the Intel® Xeon processor, the Intel® 5520 I/O Hub and the Intel® ICH10R I/O Controller Hub. The Intel Xeon 5500 platform provides impressive performance-per-watt and integrates the memory controller into the processor for reduced memory latency. The Intel Xeon processors feature Intel® QuickPath Technology and Intel® Turbo Boost Technology which, along with Intel® Hyper-Threading Technology, deliver top performance for bandwidth-intensive applications. Intel QuickPath Technology provides a high-speed, point-to-point connection between the microprocessor and the Intel® 5520 I/O Hub. Intel Turbo Boost Technology elevates performance for specific workloads by increasing processor core frequency.

Glen Fawcett, CEO for Concurrent Technologies, commented, “As one of the first companies to announce a product based on the Intel® Xeon® 5500 platform from Intel’s embedded roadmap, we have re-emphasized our commitment to introduce new high performance products to the critical embedded market. This latest product will provide the additional performance our customers are asking for.”

“The L5518 and L5508 processors provide the performance, low power and robust thermal profiles

required for many communications and embedded applications,” said Steve Price, marketing director, Intel Performance Processor Division. “New single board computers, such as the Concurrent Technologies family of 6U CompactPCI boards, have the high performance memory, networking and storage interfaces to provide an appealing solution for processing intensive applications such as deep packet inspection.”

The PP 66x/071 products benefit from the Intel Xeon processor’s large last level on-die cache of 8 Mbytes and its ability to directly access (via a 1066 MHz memory bus) up to 64 Gbytes of DDR3-1066 ECC SDRAM in four DIMM sockets. The processor has a very fast I/O data path to the Intel 5520 I/O Hub via the 20 Gbytes/sec Intel Quick Path Interface.



For high performance I/O, control and data processing flexibility, the PP 66x/071 supports, via the front panel, a PMC/XMC site (133 MHz PCI-X and up to x8 PCI Express® lanes) as well as optional I/O interconnections via two 10 Gigabit Ethernet ports (copper or optical). The rear connectors provide an interface to an optional on-board 8 port hardware RAID Controller supporting SAS and SATA300 drives. The PP 66x/071 can operate as a system controller board (left slot or right slot), a peripheral board or as a satellite board (blade). Support is also provided for PICMG® 2.16 (Ethernet fabric), PICMG 2.9 (IPMI) and PICMG 2.1 (hot swap); the CompactPCI® backplane interface operates at 33/66MHz PCI signalling speeds.

The PP 66x/071 includes three 10/100/1000Mbps Ethernet interfaces (one front and two rear) and the front panel also provides USB 2.0, RS-232, digital (1920 x 1200) and dual analog graphics (2048 x 1536), keyboard and mouse interfaces. The rear connectors provide four further USB 2.0 ports, an RS-232 ports, and four SATA300 interfaces, as well as the connections to the optional RAID controller. Other features included are a watchdog timer, long duration timer, LAN boot firmware and options for



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an onboard 2.5-inch SATA300 disk and CompactFlash™ storage. For applications requiring rear I/O connections, a single or dual slot transition module is available which can be optionally fitted with a USB Flash disk and up to two 2.5-inch SATA300 disks.

For ease of integration, the PP 66x/071 family of boards support many of today's leading operating systems, including Linux®, Windows® Server 2008, Windows® Server 2003, Windows® XP Embedded, Windows® XP, Solaris™, VxWorks® and QNX®.

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About Concurrent Technologies

Concurrent Technologies is an international ISO 9001:2000 company specializing in the design and manufacture of commercial-off the-shelf and custom designed industrial computer boards for critical embedded applications. The company, which was founded in 1985, has offices in the USA, UK and China as well as a worldwide distributor network. The company has a wide range of high performance Intel® processor based VME, VXS, CompactPCI® and AdvancedMC™ products, which are complemented by an extensive offering of PMC (PCI Mezzanine Card) and XMC (Express Mezzanine Card) products. Concurrent Technologies is an Affiliate Member of the Intel® Embedded and Communications Alliance, a community of communications and embedded developers and solution providers. For additional information, please visit <http://www.gocct.com>

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Systematic Designs (Pty) Ltd, trading as **RedLinX™**, is primarily responsible for dealing in IT, Telecoms, Transportation, Industrial, Government and the Defence market segments. **RedLinX™** has established itself over the last few years as a highly marketable brand name and has become well known in the industry for its provisioning and support of open source, open systems and leading edge embedded systems technology solutions.

RedLinX™ has offices in Cape Town and Midrand.

RedLinX™ has four operating divisions, namely: Telecoms Division, High Performance Systems, Production & Engineering Division and Embedded Systems Division.

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Provides high performance Leading edge Embedded Solutions with support for commercial and rugged applications our capabilities include complete system integration from our complimentary product consisting of:

- ⊗ High performance DSP, FPGA, PowerPC and Intel-based SBC architectures
- ⊗ Industrial PCs products packaged for industrial application requirements
- ⊗ Acquisition and Communication I/O products
- ⊗ Rugged TFT LCD displays supported with Wall Display and Capture products
- ⊗ Very high performance recording and storage systems
- ⊗ Bus analyzers
- ⊗ Chassis, backplanes and power supplies for complete integrated systems
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Consulting and provision of infrastructure, equipment, software and solutions for Next Generation Networks (NGN), VoIP, Video, Multimedia and related NGN telecommunications solutions.

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The High Performance Systems (HPS hereafter) is one of four divisions within RedLinX™. This division was established in 2007 and focuses on providing customers with high performance systems and infrastructure.

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Capabilities include mockups, specifications, 3D modeling & design, prototyping & development, qualification and manufacture of the final product.