

ELTEC Elektronik Presents a Powerful, Space and Power-Saving CompactPCI Serial Board

EUROCOM 600 offers powerful, scalable computer performance and a diverse range of interfaces

Mainz, 21st January 2015 – With the launch of EUROCOM 600, ELTEC continues to expand its embedded board portfolio by a 3U/Compact PCI serial CPU module. The robust CPU board is based on the current Intel Baytrail processor architecture (Atom E3800) and is developed for sophisticated applications in the manufacturing industry, healthcare or railway technology. The low performance loss also supports the fan-free operation in expanded temperature ranges. Thanks to the compact design, a DRAM that is permanently soldered into place and the dual Gigabit Ethernet interfaces (M12 plug, optional), which can be screw-connected if desired, this board is the perfect solution for the installation of maintenance-free computer system and utilization under tough environmental conditions.

The CompactPCI serial standard is an advanced PCI Express-directed development based on the CompactPCI- PICMG 2.0 specification that is characterized by its expeditious serial communication via the backplane. It is possible to connect expansion cards via Ethernet, PCI Express, SATA or USB.

The new EUROCOM 600 board makes use of the outstanding computing, graphics and media performance of the Intel Atom E3800 line. These embedded CPUs offer scalable computer speeds thanks to single, dual and quad cores as well as core frequencies ranging from 1.3 to 1.9 GHz, a high level of I/O connectivity, an integrated memory controller with dual channel memory interface, ECC (Error Correcting Code) support, virtualization, GPU and video codecs for JPEG and H.264.

Given its low power consumption (thermal design power in the range of 5 to 10 W) and the two permanently soldered memory banks with capacities of up to 16GB DDR3 RAM, the EUROCOM 600 is especially suitable for use in mobile applications in the extended operating temperature range (-40 °C to +85 °C). An eMMC memory module is provided as a mass storage component and offers ample memory for programs as well as application data. The Ethernet MACs are equipped with the Intel i210 and offer hardware expansions for real-time Ethernet.

The CompactPCI serial interface supports two SATA channels, four USB 2.0 interfaces and two PCI x1 links.

Many of the interfaces of the Atom SoC (including SATA, USB, display port, UART, I2C, SPI, HD Audio, PWM, General Purpose IO) are located on a side card plug. It can be used to route the interfaces on to a second 3U daughter card in addition to the EUROCOM 600 board. As a result, these interfaces can also be provided for additional applications, even if these are not supported by the CompactPCI serial-standard on the backplane. The side card plugs can either be positioned on the component or soldering end of the EUROCOM 600, with the aim of offering maximum flexibility.

Windows 7 Embedded, Windows 8.1 and Linux provide ample software support.

ELTEC will present the new EUROCOM 600 at its booth at the Embedded World (Hall 2, Booth 101) in Nuremberg, Germany, from 24th to 26th February 2015.

For more information, please visit the company's website www.eltec.com.



ELTEC Elektronik AG

ELTEC Elektronik offers tailor-made client solutions for a wide range of embedded designs with their specific criteria and tasks. To achieve this, the enterprise draws from its vast expertise in disciplines such as FPGA and CPU design, operating systems and drivers, as well as application software, bus concepts for all commonly used form factors, industrial PCs and industrial image processing.

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