

Atom module climbs Summit to record efficiency levels

Adlink Technology has introduced the Core Module 730 embedded processor based on the Intel Atom Z510 and Z530 processors at 1.1 and 1.6GHz, respectively. This is claimed to set an efficiency standard for tiny rugged computers by using the Summit expansion interface.

Connectivity includes multiple PCI Express lanes, USB 2.0 interfaces, LPC bus, Gigabit Ethernet, I²C bus and SPI bus. It also has a Compact Flash socket and total power consumption is 5W.

Conductive cooling is easy to implement for small sealed boxes with no internal air flow.

Applications are in military, avionics, transportation, data logging, portable computing and other rugged markets.

Summit is a standard expansion interface from the Small Form Factor sig. The industry standard module occupies a 90 by 96mm form factor that specifies a board outline and mount-

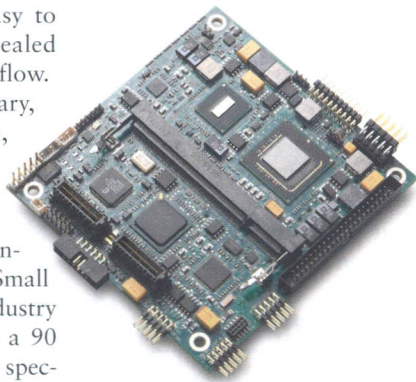
ing holes and is flexible in terms of expansion interfaces.

There is a choice of US15W chipset, DDR2 533 sodimm ram up to 2Gbyte, IDE interface, eight general-purpose IO pins and integrated graphics engine with H.264 decode acceleration, analogue VGA output and 18 or 24bit LVDS interface for LCDs.

Adlink Technology
www.adlinktech.com

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Evaluation kit for Com Express speeds up Atom development

The Kontron Micro ETX Express evaluation kit provides developers with an introduction to the compact class of Com Express. At the heart of kit are the firm's Micro ETX Express-SP or -DC computers-on-module (95 by 95mm) based on the Intel Atom processors and the ETX Express mini-baseboard. Kits are also available for evaluation with other Micro ETX Express modules.

The modular kit is an all-round platform for evaluating applications on small mobile devices that are battery or solar powered and small embedded devices that have a compact format and a high level of features.

The kit comes with the complete embedded hardware including the cables, a small power supply unit with a 12V desktop power supply and an active cooler.

At the core is the mini-baseboard (170 by 155mm). Its



height is 44mm including the computer-on-module and the optional heat spreader. Interfaces include PCI Express, PCI, serial ATA, parallel ATA, CF card slot, Gigabit Ethernet, USB 2.0, com pin headers, DVI and VGA, two LVDS, audio interfaces and a feature connector that enables a direct connection from, for example, TV or video cards to the graphics card without encumbering the CPU or the data bus.

Kontron
www.kontron.com

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Robust connection across mobile data networks



Providing a combination of rugged hardware, embedded Linux, OSGi framework and pre-packaged routing software, the rugged Zywan from Eurotech provides a secure and robust connection across GSM,

GPRS, 3G and CDMA mobile data networks, and provides real-time access to any Ethernet, 802.11b/g or serial device for mobile and fixed data applications.

Targeted for telemetry, internet access and mobile computing applications, it operates as a fully configurable embedded Linux router enabling fire-walling, DHCP, DNS and NAT.

For geo-centric applications, options exist to include a GPS

receiver providing a tracking programme and NMEA data strings for mapping applications.

A web gui interface presents a simple tool to change settings locally or over-the-air. Routing is possible from the cellular connection to two Ethernet ports plus to optional Wifi, while three serial ports are available for terminal client and server applications. Users can also make use of dual USB ports and

optional VGA and touchscreen devices from within their own applications.

Users can add their own applications on top of the core Linux and Java infrastructure on the platform, providing a quick route to market for net and geo-centric products.

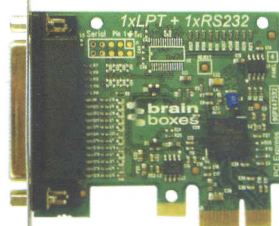
Eurotech
www.eurotech.com

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PCI Express range to include LPT

Brainboxes is expanding its PCI Express range with cards that include



LPT ports. The three latest variations are the PX-157 low profile, the PX-146 standard height card and the PX-475 standard height with RS232 port.

As LPT ports are no longer built into PCs, these cards will let users include printer connectivity in many industrial and retail applications.

The cards provide bidirectional standard printer ports, allow-

ing backwards compatibility with various peripherals.

Another application is with an EPoS system integrator. The self-service till requires an additional receipt printer.

The full PCI Express range comprises standard height and low profile versions of one, two, three, four and eight port variants in RS232 and one, two and four port RS422/485; opto iso-

lated versions also available.

Cards come with an installation CD, Microsoft signed drivers and utilities. They are compatible with 32 and 64bit Windows Server 2008, Vista, XP, Server 2003 and 2000.

Brainboxes
www.brainboxes.com

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