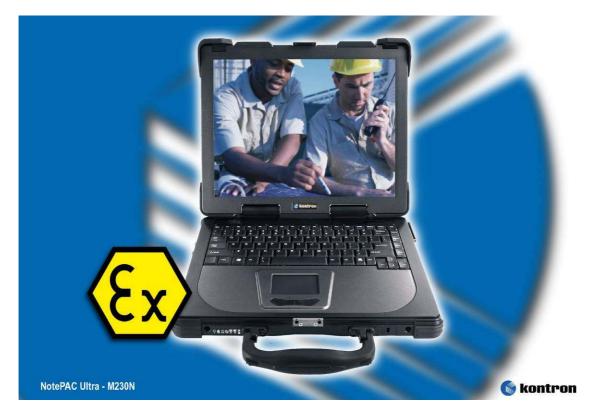# Kontron NotePAC Ultra - M230N: Ultra-tough notebook for ATEX Zone 2 environments

Rugged multi-core performance for hazardous areas

NotePAC Ultra - M230N

Eching, Germany, April 21, 2008 – Kontron has upgraded its proven fanless Kontron NotePAC Ultra - M230N rugged notebook to offer enhanced operational safety with ATEX II3G (Zone 2) / UL 1604 certification for use in hazardous environments and improved 64 bit performance with the Intel® Core™2 Duo processor.

With ATEX II3G (Zone 2) / UL 1604 certification, the rugged Kontron NotePAC Ultra - M230N is now also suitable for use in hazardous environments with potentially explosive concentrations of gas, vapor, mist or dust as specified by the ATEX directive. ATEX Zone 2 certification together with excellent thermal and mechanical protection in accordance with the MIL-STD810F standard, an ultra-tough magnesium alloy housing, long battery life and manifold interfaces, makes the Kontron NotePAC Ultra - M230N the ideal choice for a wide range of maintenance, mobile data acquisition and visualization applications in the utilities, processing industries, defense sector and other industries that require rugged, multi-core performance in potentially explosive environments.

Equipped with the 1.5 GHz Intel® Core™2 Duo processor, the Kontron NotePAC Ultra - M230N delivers optimal processing performance combined with low power consumption, making it the perfect choice for rugged mobile applications. Performance is boosted further by up to 4 GB of DDR RAM.

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Graphics are provided by the Intel® 945GM chipset with up to 128MB shared video memory. For even higher graphics performance, there is the optional NVIDIA GeForce 8400 graphics controller with 256 MB VRAM. The Kontron NotePAC Ultra-M230N can be equipped with a 14.1 inch (1,024 x 768) or high resolution 15-inch (1,400 x 1,050) LCD screen and can be used outdoors, even in direct sunlight. Kontron's sunlight-readable display solution increases the LCD brightness to 450 nits (cd/m²) without increasing power consumption and simultaneously reduces reflections caused by sunlight or other light sources. The Kontron NotePAC Ultra - M230N can also be equipped with a resistive touch-screen for convenient, menu based data input. The media bay holds dual CD/DVD-writers; alternatively it can be fitted with an additional battery to extend the Kontron NotePAC Ultra's mobile operating life between charges to six hours. Wireless communication via embedded HSDPA allows access to next-generation wireless data networks almost everywhere in the world, and an internal GPS module helps with navigation. Bluetooth 1.2, 2x PCMCIA , 2x USB 2.0, Firewire, COM, LPT and VGA complete the feature set.

The Kontron NotePAC Ultra - M230N is one of the best built-to-survive notebooks on the market. The full magnesium alloy case and tough rubber corner bumpers enable the system to survive 3-foot drops. The shock mounted hard drive module can absorb shock forces without damaging the disk surface and the built-in G-sensor provides additional shock and vibration protection in extreme situations. If the unit is dropped, the HDD heads are parked in a fraction of a second, thus avoiding HDD head crashes. Individually sealed I/O ports and doors, an optional fully sealed rubber keyboard and a LED-backlight make the Kontron NotePAC Ultra - M230N IP54-compliant and provide it with protection against rain and dust. And for people who have to work in hazardous areas and wear protective clothing, the optional touch pad for use with gloves is an ideal option. The ATEX II3G (Zone 2) / UL 1604 compliant Kontron NotePAC Ultra - M230N complies with TÜV, UL and CUL regulations and provides EMC protection (CE class B, FCC class B). Data safety is ensured by several security features, such as the built-in TPM 1.2 chip and SmartCard reader for user identification.

The rugged docking station makes the Kontron NotePAC Ultra - M230N ideal for in-vehicle applications and adds to the versatility of the unit by providing additional ports: 2x RS232, 2x USB, LPT, Line in/out, USB based video capture port and a pass through antenna port for a wireless modem.

Rugged and versatile, the Kontron NotePAC Ultra - M230N is now available.

Further information is available at: http://www.kontron.com/NotePAC

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About Kontron

Kontron designs and manufactures standard-based and custom embedded and communications solutions for OEMs, systems integrators, and application providers in a variety of markets. Kontron engineering and manufacturing facilities, located throughout Europe, North America, and Asia-Pacific, work together with streamlined global sales and support services to help customers reduce their time-to-market and gain a competitive advantage. Kontron's diverse product portfolio includes: boards and mezzanines, Computer-on-Modules, HMIs and displays, systems, and custom capabilities. Kontron is a Premier member of the Intel® Embedded and Communications Alliance. The company is a recent three-time VDC Platinum vendor for Embedded Computer Boards. Kontron is listed on the German TecDAX stock exchange under the symbol "KBC". For more information, please visit: www.kontron.com.

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