Paving the Way for Intelligent Transportation:

TRACe™

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About Kontron

Kontron, a global leader in embedded computing technology and trusted advisor in IoT, works closely with its customers, allowing them to focus on their core competencies by offering a complete and integrated portfolio of hardware, software and services designed to help them make the most of their applications.

With a significant percentage of employees in research and development, Kontron creates many of the standards that drive the world's embedded computing platforms; bringing to life numerous technologies and applications that touch millions of lives. The result is an accelerated time-to-market, reduced total-cost-of-ownership, product longevity and the best possible overall application with leading-edge, highest reliability embedded technology.

Kontron is a listed company. Its shares are traded in the Prime Standard segment of the Frankfurt Stock Exchange and on other exchanges under the symbol "KBC".

For more information, please visit: **www.kontron.com**

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▶ KONTRON IS PAVING THE WAY FOR TECHNOLOGY THAT ENABLES CONTINUING ADVANCEMENT, EXPANSION AND LONG-TERM VALUE. WITH THE INCREASING COMPLEXITY OF TRANPORTATION SYSTEMS, ABRUPT CHANGES IN THE SILICON INDUSTRY AND SHIFTING CONSUMER DEMANDS THAT CAN MAKE MAINTAINING AND MANAGING SYSTEMS COSTLY, TIME CONSUMING AND PRESENT NEW RISKS AND CHALLENGES - KONTRON IS YOUR TRUSTED PARTNER.

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▶ FLEXIBLE DESIGN CUSTOMIZATION

▶ MODULAR SIMPLICITY

▶ LIFECYCLE STABILITY

▶ HIGH-CAPACITY PERFORMANCE

POSSIBILITIES START HERE ◆ **kontron**

PROVEN, RUGGED, FEATURE-RICH BUILDING BLOCKS

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TRACe™ offers a flexible baseline for integrators and system designers to easily customize and rapidly deploy specialized applications and new infrastructures. Already verified and in operation worldwide, the TRACe™ product line addresses the broadest range of modern, connected rolling stock applications through easily customizable, EN50155 pre-certified (EMC, EMI, climatic, shock and vibrations), application-oriented computer profiles - allowing multiple applications to run on the same platform:

▶ Video Surveillance: Recording and Distribution (Storage, Processing)

▶ Passenger Entertainment and Communication: Communication Gateways (WiFi, 3/4G)

▶ Train Control, Interlocking, Health Management, Network End Point Communication (management, monitoring)

▶ Explore more of our Transportation solutions:
http://www.kontron.com/transportation

TRACe **IRIS** Certification

KONTRON'S BUILDING BLOCKS APPROACH MEANS YOU WILL BENEFIT FROM:

FLEXIBILITY
Cost-effective design customization with flexible I/O, memory, storage and power enables rapid time to deployment.

SIMPLICITY
All TRACe™ are EN50155-certified and utilize the same set of long term available modular building blocks and APIs.

STABILITY
Our focus on quality means reliability and longer product lifecycles. Roadmapped long-term invariability facilitates mid-life retrofits and technology upgrades.

PERFORMANCE
High-density, low-power, rugged design based on quad-core Intel® Atom™ technology. Dedicated CPUs for Health Management means it keeps performing.

TRACe M304-TR
Rolling-Stock Management Computer for Train Control and Monitoring

▶ 2 Gigabit Ethernet LAN + (2T2R) WLAN 802.11 a/b/g/n

▶ Can act as a MVB/LAN/Wi-Fi gateway

TRACe V304-TR
Network Video Recorder for IP Video and Surveillance

▶ 25x H.264 IP cameras video streams @ 2 Mbps

▶ Up to 2 x 2.5" removable drives + (2TR2) WLAN 802.11 a/b/g/n

TRACe G304-TR
Certified Gateway for Telemetry, Station and Train Control or Infotainment

▶ 2 Gigabit Ethernet LAN + enhanced (3T3R) WLAN 802.11 a/b/g/n

▶ WWAN with dual SIM support: LTE (4G)/HSPA+/GSM/GPRS/EDGE/EV-DO +

▶ Supports GPS location solutions on 4G modem: A-GPS, gps XTRA and Glonass

TRACe B304-TR
Integrator-friendly Baseline Operational Computer

▶ Open slots for flexible I/O connectivity

▶ Modular construction (accepts custom faceplate, I/O panels or PSUs)

▶ Designers' kit (documents, test programs)

TRACe HMID104
Rugged Display Computer for Mobile Applications such as Driver Display

▶ 10.4" TFT display with anti-vandal glass

▶ Projected Capacitive Touch, Keyboard according to UIC612

▶ IP65 protection on front side