

K3832-Q and K3833-Q: Kontron mini-ITX motherboards with latest 12th Gen Intel® Core™ i processors

New mITX motherboards for industrial real-time applications

Ismaning, November 9, 2022 - [Kontron](https://www.kontron.com), a leading global provider of IoT/Embedded Computing Technology (ECT), is expanding its portfolio of motherboards based on Intel's® 12th Gen Core™ i technology. Two compact mini-ITX motherboards with different feature sets will be introduced at SPS 2022 in Nuremberg. Combined with the enormous scalability of computing power from Intel® Celeron® to Core™ i9 CPUs as well as extensive expansion options, they are ideal for a wide range of applications in Medical Technology, Industrial Automation, Casino Gaming, Visualization, Kiosk, Retail and many more. The Intel® Q670E chipset offers out-of-band remote management (Intel® AMT) as well as additional features like RAID; but also long availability and embedded broad market use conditions.

The motherboards, developed and produced in Germany, are designed for an extended temperature range of 0 °C to +60 °C and are suitable for 24/7 continuous operation. Remote administration and maintenance are enabled by iAMT-based out-of-band management functionality (Intel® Active Management Technology). Real-time critical industrial applications are supported by Time Sensitive Networking (TSN) and other chipset-based features. Both motherboards are equipped with dual Intel® LAN (1x 1 GbE / 1x 2.5 GbE) with teaming and TSN support, a PCIe x16 Gen 5 (16 lanes) expansion slot, high-performance USB 3.2 Gen2, one M.2 Key-M and one Key-E slot, as well as two DIMM sockets for high-performance DDR5 memory.

The K3833-Q mITX motherboard variant with ATX (multi-rail) power supply impresses with four DisplayPorts V1.4a @4k as well as an embedded DisplayPort eDP V1.4b. First samples will be available in December 2022.

Samples of the K3832-Q mITX with innovative dual power supply will also be available by March 2023. Talking point is a classic single 12 V supply or the efficient and long-awaited Intel® standard ATX12VO. This variant is equipped with two DisplayPorts V1.4a @4k, a dual channel LVDS and an eDP V1.4b.

For more information please visit: <https://www.kontron.com/en/products/k3833-q-mitx/p176291> or <https://www.kontron.com/en/products/k3832-q-mitx/p176289>

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Kontron is a global leader in IoT/Embedded Computing Technology (ECT) and offers individual solutions in the areas of Internet of Things (IoT) and Industry 4.0 through a combined portfolio of hardware, software and services. With its standard and customized products based on highly reliable state-of-the-art technologies, Kontron provides secure and innovative applications for a wide variety of industries. As a result, customers benefit from accelerated time-to-market, lower total cost of ownership, extended product lifecycles and the best fully integrated applications. For more information, please visit: www.kontron.com

Media Contacts

Global

Eleonore Arlart
Kontron Europe GmbH
Tel: +49 (0) 821 4086 274
eleonore.arlart@kontron.com

EMEA

Jan Lauer
Profil Marketing OHG
Tel: +49 (531) 387 33-18
kontron@profil-marketing.com

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