PRESS RELEASE

KUNBUS launches RevPi Connect 5

First industrial Raspberry Pi based on the new Compute Module 5

Denkendorf, November 27, 2024 – **KUNBUS expands the Revolution Pi family with the new RevPi Connect 5, the world's first industrial PC based on the Raspberry Pi Compute Module 5 (CM5). The RevPi Connect 5 impresses with three times the computing power and significantly enhanced GPU performance compared to the previous generation, completing the Revolution Pi product portfolio at the high end. This comprehensive device series now enables the selection of a suitable model for various projects – from entry-level devices based on the CM4S to mid-range systems with the CM4 and high-performance models with the CM5. The new RevPi Connect 5 will be available in multiple product variants with specific technical features.**

The RevPi Connect 5 is powered by the quad-core Broadcom BCM2712 ARM Cortex-A76 processor with a clock speed of 2.4 GHz, up to 8 GB RAM, 32 GB eMMC storage, and an integrated TPM 2.0 (Trusted Platform Module) for enhanced data security. With support for LPDDR4X-4267 RAM and a faster eMMC interface, data processing is significantly more efficient.

The device offers extensive connectivity options with two Gigabit Ethernet ports (RJ45), two USB-A 3.2 Gen 1 ports, and a micro-HDMI output. Optional features include Wi-Fi and Bluetooth functionality, as well as CAN FD and RS485 interfaces. The new VideoCore VII graphics processor supports OpenGL ES 3.1 and Vulkan 1.2, enabling 4K video output at 60 fps (frames per second). On the front panel, six RGB LEDs are available, five of which are freely programmable.

In line with its philosophy, KUNBUS delivers the RevPi Connect 5, an open, modular hardware platform that can be flexibly adapted to a wide range of requirements. It is particularly suited as an IIoT gateway for machine data integration, edge computing for predictive maintenance and multi-protocol communication. Other applications include visual inspection systems, smart building management, and real-time visualization. The device comes pre-installed with a Raspberry Pi OS optimized for industrial use. The system supports standard communication protocols such as Modbus RTU/TCP, MQTT, and OPC UA, and is compatible with a variety of software add-ons, including CODESYS for professional control and HMI solutions. Users can also develop custom applications in Node-RED, Python, or C.

With its expansion modules – ranging from analog and digital I/O modules to gateway modules for PROFINET, EtherNet/IP, EtherCAT, and PROFIBUS – the Revolution Pi demonstrates exceptional flexibility. Full backward compatibility ensures seamless integration into existing systems without requiring adjustments to existing infrastructure or software.

"Through our close partnership with Raspberry Pi Ltd., we received early access to the Compute Module 5," says Nicolai Buchwitz, Revolution Pi Product Owner at KUNBUS. "This enabled us to develop and launch the RevPi Connect 5 efficiently, delivering a powerful solution that's both future-proof and cost-effective while maintaining the flexibility our customers expect."

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About KUNBUS

KUNBUS is a leading provider of industrial automation and IIoT solutions. The company developed the first open-source industrial PC based on Raspberry Pi, the "Revolution Pi". Compliant with all major industrial standards, including IEC 61131-2, the Revolution Pi is robust, reliable, and versatile. The product family now includes a wide range of expansion modules to support a broad range of automation and IIoT projects. The open-source nature of the Revolution Pi provides access to an extensive ecosystem of existing software and resources.

Founded in 2008, KUNBUS works with a team of over 130 employees at three development sites to create next-generation technologies. Its modern production facility in Germany ensures the highest quality and reliability. A network of more than 30 international distribution partners provides first-class service and support worldwide.

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