New K-PORT solution for transparent IoT device management

Coordinated hardware, software and connectivity, security-by-design, end-to-end encryption and SecureOS across global IoT device landscapes

Ismaning, November 8, 2022 - [Kontron](#), a global leader in IoT/Embedded Computing Technology (ECT), introduces a new all-in-one asset management and remote maintenance solution that connects IT and OT. The K-PORT digital solution simplifies and supports the automated commissioning, care and maintenance of IIoT solutions based on devices distributed in the field. This includes, for example, digital services, predictive maintenance or AI quality control. The solution combines the services of administration, container management and remote maintenance with a secure operating system.

With K-PORT from Kontron's susietec® toolset, thousands of device connections worldwide can be managed centrally and transparently. IT managers can thus ensure secure operation of the devices and have a full overview of interfaces, hardware statuses and software configurations at all times. A hardened operating system for X86 or ARM, based on Yocto Linux, ensures security; two redundant operating system parts guarantee 100 percent uptime. A secure management interface for updates and deployment enables short-term updates of new security patches.

Security-by-Design supports remote applications
With the help of K-PORT, both the time-to-market and the costs for new digital customer services can be reduced significantly while relieving the IT department. Machine and plant manufacturers can thus monetize customer-specific applications more easily and operators can in turn increase machine turnovers through digital services. Due to the security-by-design concept, applications or updates are delivered with secure end-to-end encryption. New sensor-equipped IoT devices or edge devices can be onboarded and managed more easily in a centralized cloud environment.

Typically, applications are deployed in the form of Docker containers on devices in the field. In addition to individualized customer applications that can be encapsulated in containers, various desktop and remote accesses such as RDP & SSH can also be managed on the platform. The solution enables the establishment of temporarily encrypted remote connections up to machine and customer network level for services such as remote maintenance, parameterization or data exchange. With the integrated health monitoring, important

parameters such as memory and CPU utilization, connection status or operating time temperature of the IoT devices can also be monitored continuously.

Further information:

For more information please visit: https://www.susietec.com/en/products-services/k-port

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About Kontron

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

About Kontron AIS GmbH

Kontron AIS sets the benchmark in industrial software. For more than 30 years and with 190 employees, Kontron AIS has been supporting machine and plant builders as well as factory operators with solutions to break new ground in automation and thereby sustainably reduce costs. Together with its customers, Kontron AIS develops concepts for Smart Manufacturing and Industry 4.0 worldwide so that intelligent digitalization strategies can be successfully implemented. As part of Kontron AG, Kontron AIS offers integrated concepts for control and IoT hardware and worldwide project management, service and support through a global network. For more information, please visit: www.kontron-ais.com

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