

ManagedEdge IoT Bundle

Comprehensive IoT device management, secure operating system and proven hardware under one roof.

From the quick start of an initial test environment to the secure series operation of small to medium-sized device fleets and the development of a CRA- and NIS-2-ready IoT infrastructure – implement everything with the ManagedEdge IoT Bundle.



KontronGrid

Comprehensive IoT device management as central control element for the seamless management of global IoT infrastructures



KontronOS

Secure operating system optimized for Kontron hardware provides protection for IoT devices and applications



Kontron Hardware

Proven IoT hardware as solid foundation for comprehensive IoT infrastructures



Ready-to-use



Fast scaling



Low initial costs



Automated updates



ManagedEdge IoT-Bundle

Features



KontronOS

Secure Operation of Customer Applications

- › Two redundant partitions for maximum uptime
- › Secure Boot for the secure execution of approved and digitally signed operating systems
- › Minimalist design on proven Linux®
- › End-to-end encryption of all connections
- › Separation of operating system and applications



KontronGrid

Easy Device Management

- › Continuous status monitoring of IoT devices including geolocation
- › Central control of globally distributed edge devices in a cloud environment
- › Manage individual devices, device groups and device fleets
- › Simple registration of new IoT devices

Remote Support

Flexible & Secure Remoting

- › Centralized management of desktop and remote access, including RDP and SSH
- › Protected remote access to edge devices for efficient support

Temporary VPN Tunneling

- › Secure and controlled direct access ("tunneling") to the machine and plant network
- › Manage, monitor and log temporary VPN connections
- › Simultaneous connection of several experts to an edge device

Efficient Application Management

- › Manage Docker containers and native applications
- › Roll out mass updates to device fleets using templates
- › Automated deployments with CLI integration and REST APIs
- › Comprehensive configuration and simple orchestration of image sets using Docker Compose
- › Isolated app packages for direct operation of customer applications in the OS

Available Kontron Hardware

AL i.MX8M Mini/LTE

Gateway for sophisticated automation solution



Performance parameters

- › CPU: Cortex-A53 4x1.6 GHz, Cortex-M4 1x400 MHz
- › 4 GB LPDDR4, 32 GB eMMC
- › Interfaces: 1x RS232, 1x RS485, 1x CAN 2.0B, 4x DIO
- › Expandable via multifunction I/O module
- › Power Supply: 24 VDC (+/-20 %)
- › Optional: LTE Cat 1 module with global coverage, only RED certification

KBox A-251-AML/ADN

Cost-optimized and flexible gateway for IoT edge applications



Performance parameters

- › CPU: Intel® N97
- › RAM: 8 GB
- › Power Supply: 12V DC, 24V DC
- › LTE: LTE/4 G module
- › WIFI: WI-FI 6E
- › Memory: 64 GB eMMC

KBox A-151-TGL

High-performance gateway for demanding IoT edge and AI applications



Performance parameters

- › CPU: Intel® Core™ i5-1145G7E
- › RAM: 8 GB
- › Power Supply: 12V DC to 30V DC
- › LTE: LTE/4 G module
- › WIFI: WI-FI 6
- › Memory: 256 GB M.2 NVME

Software

- › KontronOS pre-installed
- › KontronGrid Agent pre-installed
- › Software licence 1 year included

Learn more:



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