ManagedEdge IoT Bundle

IoT Device Management and Secure Operating System to Automate and Update Your Device Fleets

kontron
The Power of IoT

The ManagedEdge IoT bundle supports component and device manufacturers in the commissioning, operation and remote maintenance of their IoT solutions in the field.

With the ManagedEdge IoT Bundle you receive a complete solution consisting of three elements: Compatible hardware, IoT Device Management KontronGrid and the secure operating system KontronOS. This lays the foundation for the development of your individual IoT solutions. At the same time, you automate important tasks such as performing fleet updates at operating system and application level, monitoring devices and setting up fast remote support. Manage thousands of device connections securely and efficiently – worldwide and at a glance.

Compatible hardware

KBox A-250

KBox A-151 EKL

KBox A-151 TGL

AL.iMX8M Mini

Your advantages

Flexible and scalable

Get started right away

Simple and efficient

Productivity boost for development teams

Maximum security, minimum effort

![kontron - The Power of IoT]

ManagedEdge IoT Bundle services - integrated but can be used independently

Simple device management

› Continuous condition monitoring of the IoT devices
› Cloud-based management of globally distributed edge devices and device fleets
› Simple onboarding of new IoT devices

Temporary VPN tunneling

› Secure and controlled direct access
› „Tunneling" into the machine and system network
› Manage, monitor and log temporary VPN connections
› Simultaneous connection of several experts on one device

Secure operating system KontronOS

› Yocto-Linux® operating system for x86 or Arm®
› Two redundant operating system partitions for maximum uptime
› Proactive and continuous CVE/CWE analysis of the software components
› Regular patches, can be updated at short notice in the event of "critical" vulnerabilities
› Reduced to the essentials and for the optimal operation of Docker-based and native customer applications

Efficient application management

› Encapsulate customer applications (images) in containers
› Automated deployment of Docker images for device fleets using the Command Line Interface (CLI)
› Perform mass updates to device fleets using templates or distribution sets
› Extensive configuration and simple orchestration of image sets

Flexible remoting

› Centralized management of desktop and remote access such as RDP and SSH access
› Establishment of secure remote connections for efficient support

How you benefit from our complete IoT solution

IT managers

❯ Minimize complexity for IT teams and relieve IT resources
❯ 24/7 control over a globally distributed device fleet
❯ Meet the highest security standards and compliance requirements

Software development

❯ Secure data exchange through end-to-end encryption
❯ Continuous deployment during operation
❯ Simple creation and management of containers for scalable applications

Product managers

❯ Monetize software licenses and customer-specific applications
❯ Increase machine sales through digital service
❯ Competitiveness through Securing time-to-market
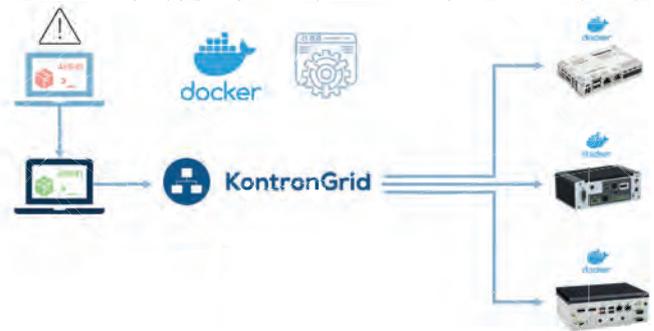

Service & Support

❯ Reduction of hardware, installation and and maintenance costs
❯ Time savings through troubleshooting
❯ Depth of support right down to the control level
❯ Proactive action through predictive analysis

Easy onboarding and worldwide device management

KontronGrid makes it much easier for IT managers to manage, monitor and securely operate their IoT infrastructure. This allows you to keep an eye on interfaces, hardware statuses and software configurations of thousands of device connections at all times. Thanks to a pre-installed script ex works and a stored profile, new IoT devices can be easily onboarded and automatically assigned to the appropriate instance in KontronGrid after initial operation.

Roll out mass updates automatically

With the KontronGrid, software development can automatically update complex container-based or native applications via configurable image templates. CLI, REST APIs and Docker Compose Integration support an efficient build and deployment process. This enables the planning and implementation of successive update scenarios on globally distributed edge devices.

Increase response speed with 24/remote support
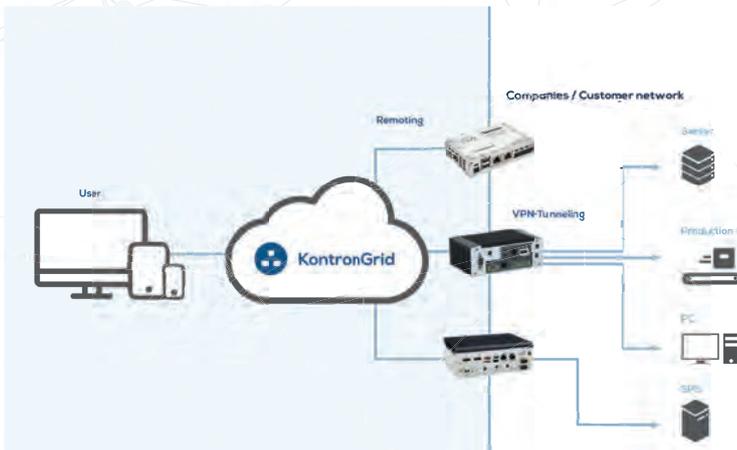
Service and support must react quickly in the event of faults. The KontronGrid gives you a good overview of important health parameters of the IoT device. Access the console or graphical user interface of the device quickly and efficiently from a distance via Remote Desktop Shell (RDP) or Secure Shell (SSH). Alternatively, use a temporary direct connection "VPN tunneling" to provide remote support at the control level in the customer and machine network.

A Brand of Kontron

Contact us for a customized offer!

Contact

Kontron AIS GmbH
Otto-Mohr-Straße 6
01237 Dresden
Deutschland

+49 351 21 66 0
info@kontron-ais.com
www.kontron-ais.com