

KONTRON GATEWAY



INTELLIGENT SYSTEM CONNECTIVITY – SMART & SECURE

Connected business systems have seen a major surge in recent years, boosted by technical evolution and the ability to operate independently. With the aid of sensors, devices ("things") deliver data on status, location and other information.

"Secure elements" provide hardware-based protection of sensitive data, both during transport and in idle mode. Providing and maintaining consistent communications via a digital backbone is proving to be a critical success factor for the development of intelligent, connected product solutions and the associated business models.

The Kontron Gateway combines all these aspects to deliver a state-of-the-art hardware solution for an advanced, intelligently connected product ecosystem. The Kontron Gateway not only relies on hardware-based cryptography for protection: Integration with exceed connect TRUST permits the use of a full-range security architecture for secure management of the gateway through-out its entire lifecycle.

FEATURES

- ▶ Secure boot
- ▶ Data system encryption in idle mode
- ▶ Linux OS
- ▶ Supports global mobile communications standards via USB stick
- ▶ Wide range of communication interfaces
- ▶ Custom versions and configurations available
- ▶ Intelligently connected product ecosystem
- ▶ "Made in Germany"

CLIENT BENEFITS

- ▶ Secure communication
- ▶ Integration of products and devices
- ▶ Supports preexisting products
- ▶ Scalable
- ▶ Single source for end2end communications solutions
- ▶ Rapid response and reduced down-times thanks to high accessibility
- ▶ Maximum transparency

APPLICATIONS

- ▶ Security thanks to extensive monitoring
- ▶ Industrial communications
- ▶ M2M (machine-to-machine)
- ▶ Home automation
- ▶ Retail / POS / vending
- ▶ Preventive maintenance
- ▶ Remote monitoring and diagnosis



TECHNICAL DATA

FUNCTION	STANDARD CONFIGURATION	OPTIONAL
MICROPROCESSOR		
CPU	i.MX6 Solo (Cortex A9, 800 MHz)	
MEMORY		
DDR3-RAM	512 MB	
NOR-Flash	1 MB	
NAND-Flash	512 MB	4GB eMMC
SD/MMC	SD/MMC Slot intern	
COMMUNICATION		
Ethernet	2x 10/100 Mbit	galvanically isolated
USB Host	2x USB 2.0	galvanically isolated
USB OTG	1x Mini USB	galvanically isolated
Serial	3x RS232	galvanically isolated
CAN	1x CAN 2.0	galvanically isolated
WLAN	1x WLAN 802.11 bgn	LORA (with alternative WLAN chipset)
Mobile network	1x USB2.0 for USB stick, embedded in casing	
Authentication	Embedded secure element ISO 7816 SC reader for secure element	
OTHER		
Power supply	12/24V DC via external power plug	
Temperature range	0..+70°C	
Status indicator	LEDs green	
Housing	plastic housing	
Dimensions	105 x 100 x 45 mm	



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