RoboGate

IoT Field Gateway Solution

RoboGate is an innovative field gateway solution that combines hardware and software. Fitting industrial standards ***RoboGate*** adresses cases like retrofit of industrial equipment, energy efficiency as well as condition monitoring. The edge computing approach enables traffic reduction and fast decision making, leveraging operational data from heterogeneous systems.

Industry fitting

Integration in the shop floor

- Industry rugged hardware and integrated software
- Designed for 24/7 operation time
- Centralized control of software configuration, updates and scalability

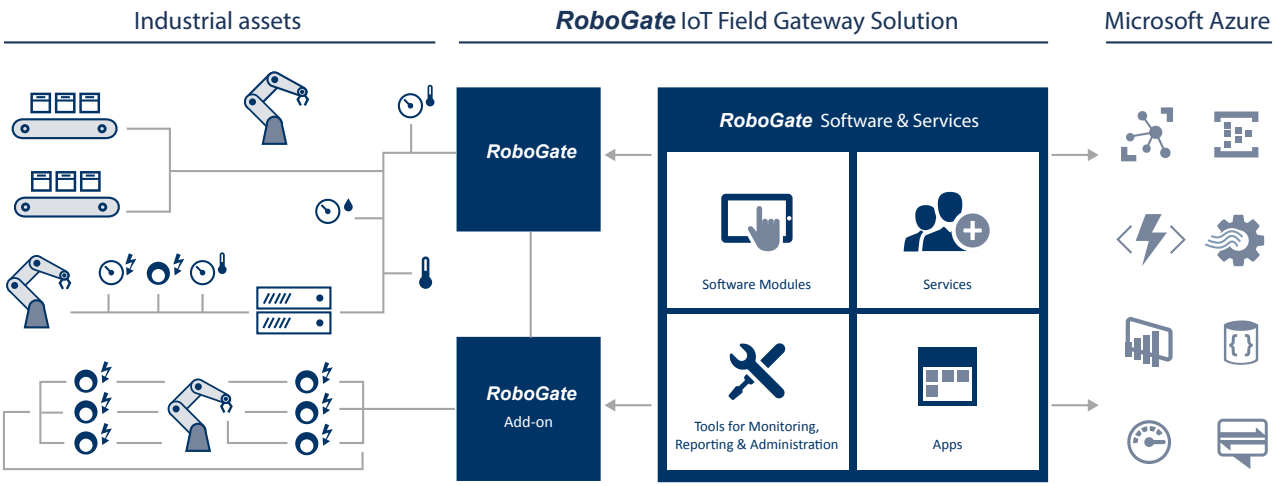
Add-on-ability

Customized add-ons

- Flexible expandability via slave modules
- Customized modules possible
- Energy add-on for energy monitoring available

Use cases

- Condition monitoring
- Predictive maintenance
- Energy efficiency monitoring
- Asset tracking and monitoring



How ***RoboGate*** helps your machines talking IoT

Retrofit

- Connect existent machines with an external Azure IoT platform
- Tie-in intelligent gateway in any field-bus system due to supporting established industry protocols
- Collect, process and transmit machine data from the SPC or directly connected sensor technology to any receiver

Egde IoT

- Data preprocessing by filtering, aggregation or intelligent routing
- Immediate use of algorithm for detection of patterns or anomalies at the ***RoboGate*** as well as sending alerts and switching via an integrated relay disclose the complete scope of the edge device usage
- Centralised model learning and local application in connection with Azure cloud technology

Connectivity

- Field gateway solution offers a maximum of interface flexibilty with legacy, on-premise and cloud systems enabling multiple networking
- Hardware interfaces fit all industrial connection sizes like CAN, RS485, RJ45, etc.

Intelligent sensor

- Convert ***RoboGate*** into an intelligent sensor with a flexible add-on system and the existent interfaces
- Energy-add-on and other customized extensions available

Specifications

Controller	TI Sitara™ AM3352 32-Bit ARM® Cortex®-A8
Memory	1GB DDR3L RAM, 8GB eMMC
Power Supply	20V to 30V
Communication	1x 1GbE, 1x PoE (100Mbit), 1x USB 2.0 Host, 1x USB 2.0 Device, 1x CAN, 1x RS485, 2x digital in, 2x analog in, 1x relay no/nc switch, ready for wireless communication
HMI	Status LEDs
Temperature range	0°C to 70°C
Software	Ubuntu 16.04 LTS and Robotron Field Gateway Solution
Size	125 x 110 x 18mm
Additional	Incl. temperature and relative humidity sensing, insert modules for wireless communication (e.g. WiFi + ZigBee, UMTS+ZigBee), customized add-ons, long-term availability, DIN-rail mountable, mounting bracket available

YOUR CONTACT TO US!

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