

# RoboGate

## IoT Field Gateway Solution

**RoboGate** is an innovative field gateway solution that combines hardware and software. Fitting industrial standards **RoboGate** addresses 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

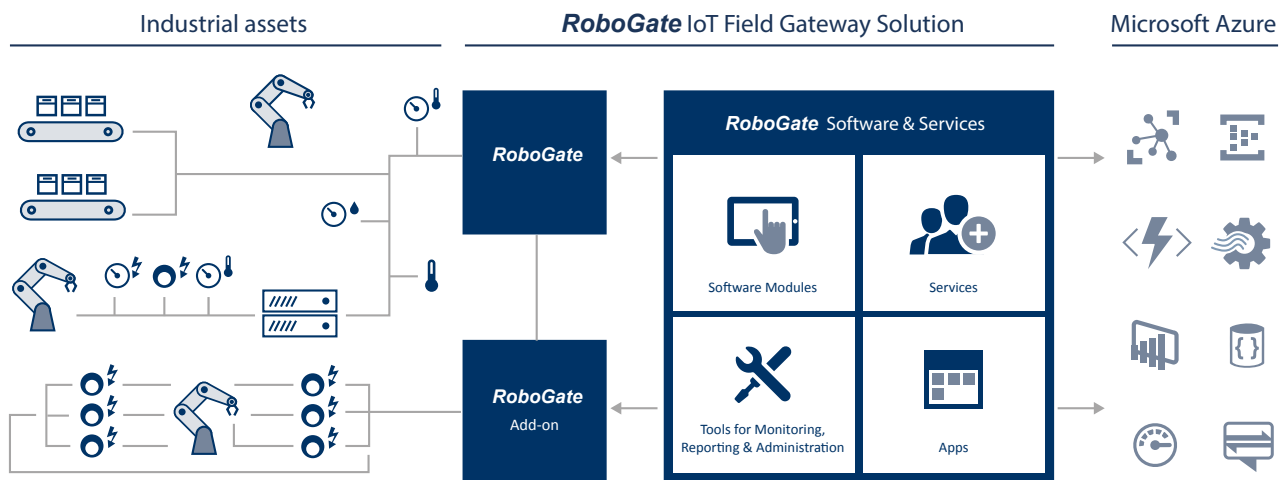
### Add-on-ability

#### 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

## Edge 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 flexibility 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

<b>Controller</b>	TI Sitara™ AM3352 32-Bit ARM® Cortex®-A8
<b>Memory</b>	1GB DDR3L RAM, 8GB eMMC
<b>Power Supply</b>	20V to 30V
<b>Communication</b>	1x GbE, 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
<b>HMI</b>	Status LEDs
<b>Temperature range</b>	0°C to 50°C
<b>Software</b>	Ubuntu 16.04 LTS and Robotron Field Gateway Solution
<b>Size</b>	125 x 110 x 18mm
<b>Additional</b>	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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