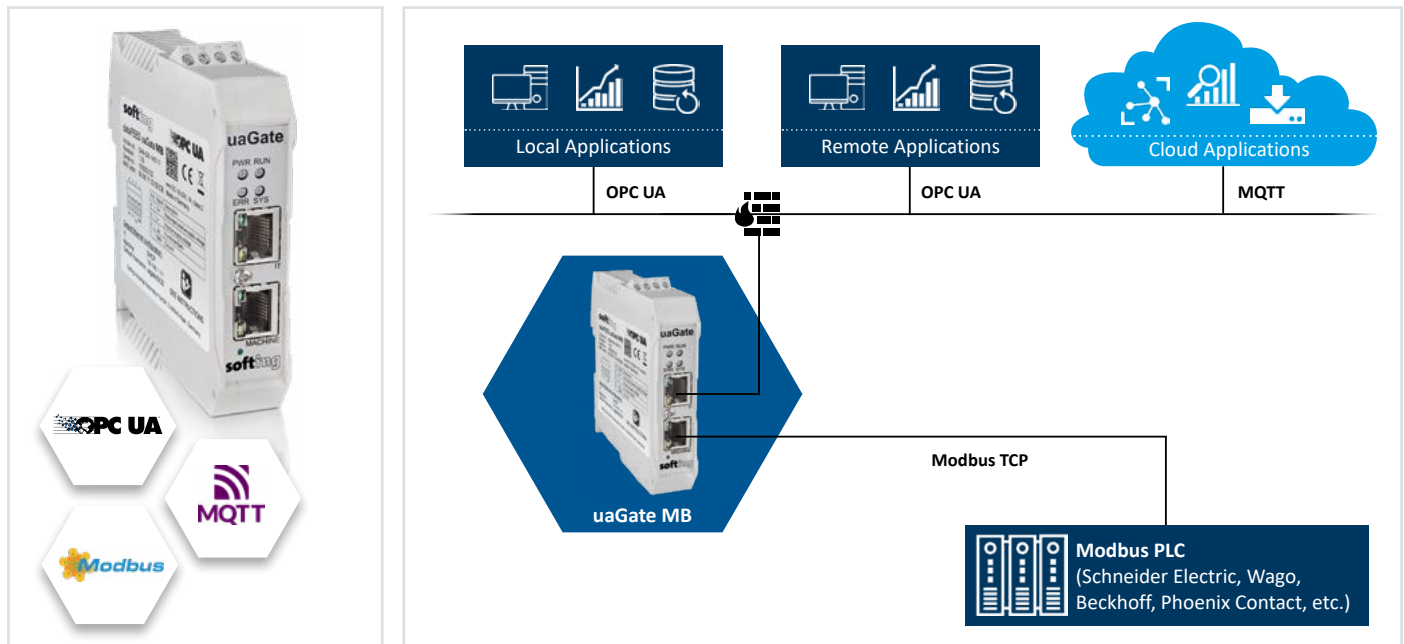# uaGate MB

Gateway for OPC UA and MQTT Communication Access to Modbus TCP PLCs

- **Integration of Modern OPC UA and MQTT Communication Functionality**
- **Symbol Import of Controller Data Using Web Interface**
- **Usage of High Security Standards for Protecting Transferred Data**

Local Applications — OPC UA

Remote Applications — OPC UA

Cloud Applications — MQTT

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Modbus TCP

Modbus PLC
(Schneider Electric, Wago, Beckhoff, Phoenix Contact, etc.)

Access to Data in Modbus PLCs from OPC UA Applications

- Access to Modbus controllers, e.g. from Schneider Electric, Wago, Beckhoff, Phoenix Contact, etc.
- Integration of higher-level management systems like ERP, MES or SCADA using integrated OPC UA Server providing open, platform independent, and market-proven communication
- Easy local and global access to field data and routing through firewalls
- Especially dedicated to retrofit upgrades, thus protecting former investments
- No need for software updates, operating system patches and PC updates resulting in years of failure-free operation
- Minimal PLC programming for register setup required
- No dedicated PC required

PLC Project Data Available for Further Processing

- Symbol import from user-edited text file
- Easy setup of OPC UA Server requiring only a few steps for accessing data in Modbus PLCs
- Web-based interface for gateway configuration

Industry-proven Security

- Physically separated interfaces and separate configuration rights for OT and IT networks preventing intrusions
- Supporting security standards as SSL/TLS and X.509 certificates
- OPC UA compliant data encryption and user authentication
- Security supported for MQTT communication with private and public clouds

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Technical Data

Hardware	Processor	Altera Cyclone V SoC with Dual-core ARM Cortex-A9
	Connectors	2 x IEEE 802.3 100BASE-TX/10BASE-T (independent interfaces)
	Status LEDs	PWR (power supply), RUN (running), ERR (error), SYS (configuration)
	Dimensions (H x W x D)	100 mm x 22.5 mm x 105 mm
	Power Supply	18 VDC ... 32 VDC, SELV/PELV supply mandatory Typically 200 mA, maximum 1 A at switch-on
	Operating Temperature, Horizontal DIN Rail Installation	-40 °C ... 50 °C (0 mm minimum distance) -40 °C ... 55 °C (22.5 mm minimum distance)
	Operating Temperature, Vertical DIN Rail Installation	-40 °C ... 35 °C (0 mm minimum distance) -40 °C ... 40 °C (22.5 mm minimum distance)
	Storage Temperature	-40 °C ... 85 °C
	Relative Humidity	10 % ... 90 %, non-condensing
	Weight	About 0.2 kg
	Mounting	DIN Rail (35 mm)
	Housing	Phoenix Contact ME MAX
	Protection Class	IP20
Software	Protocols	Modbus TCP, OPC UA (Server, up to 20,000 OPC UA Nodes), MQTT (Publisher, up to 1,000 topics)
	Supported Controllers	Modbus TCP controllers, e.g. from Schneider Electric, Wago, Beckhoff, Phoenix Contact, etc.
Conformity	Emission	EC Directive 2004/108/EC "Electromagnetic Compatibility", EN 55011, Group 1, Class A EC Directive 2004/108/EC "Electromagnetic Compatibility", EN 55022, Class A EC Directive 2004/108/EC "Electromagnetic Compatibility", EN 61000, Part 6-4 FCC CFR45, Part 15 Section 15.107 and 15.109 (Class A), VCCI Class A Information Technology Equipment 2002
	Immunity	EC Directive 2004/108/EC "Electromagnetic Compatibility", EN 61000, Part 6-2
Certifications		CE, FCC, RoHS

Scope of Delivery

Hardware	uaGate MB
Software	Tool for configuration over integrated web interface
Documentation	Quick Startup Guide (printed documentation)

Order Numbers

GAA-YE-145133	uaGate MB

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