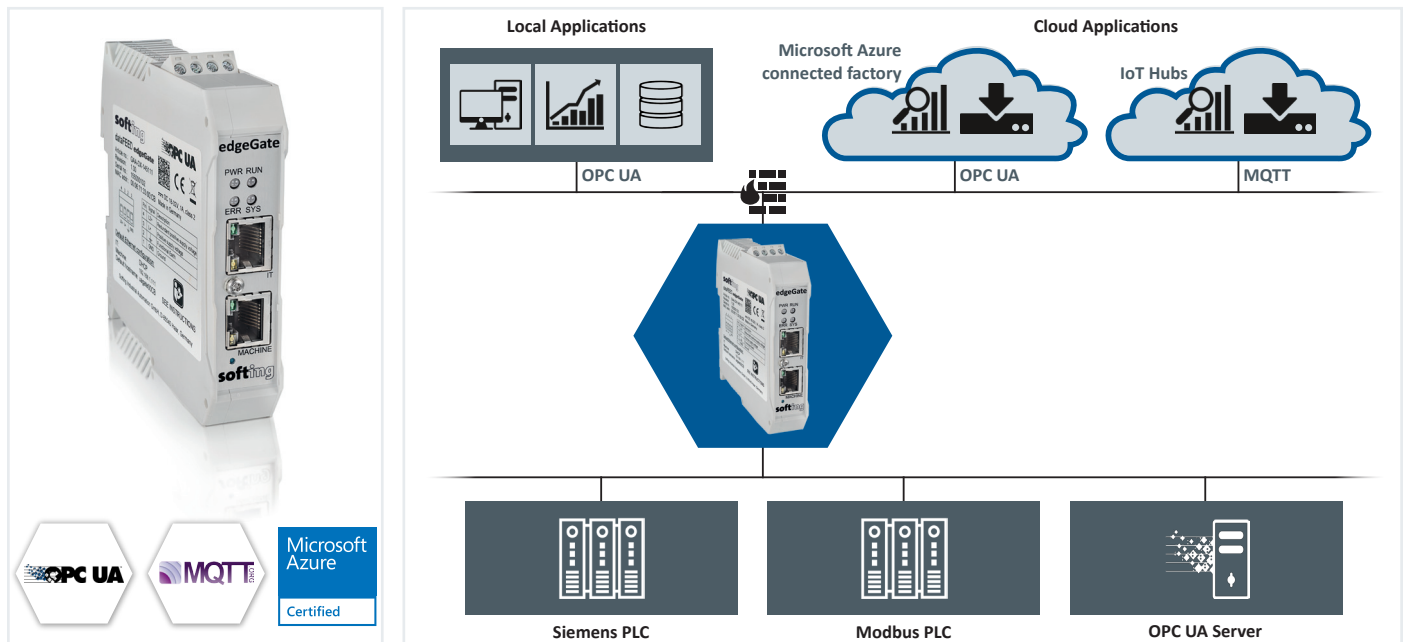


# edgeGate

Reliable Connectivity of Siemens and Modbus PLCs to IoT Hubs from Different Cloud Vendors

- Bidirectional Data Exchange Between Controllers and Microsoft Azure Connected Factory
- Generic MQTT Publisher and OPC Server Functionality for Connecting Industrial Networks to IT Applications Running On-premise or in Cloud
- Usage of High Security Standards for Protecting Transferred Data



## Connection of IoT Hubs from Different Vendors With Siemens and Modbus PLCs

- Adjustable topic settings for MQTT payload according application requirements
- Chance for analytics, storage, computing applications in cloud solutions from different vendors, e.g. Amazon AWS, IBM Bluemix, Microsoft Azure
- Integration of OPC UA and MQTT client applications running on-premise as well as in private and public clouds
- Worldwide remote access to field data
- Suited to new applications such as IoT or analytics functionality while dedicated to retrofit upgrades
- No PLC programming necessary
- Symbol import from STEP 7 and TIA Portal projects
- No software updates, operating system patches and PC updates required

## Comprehensive Integration with Microsoft Azure Applications

- Direct data access from Microsoft Azure to Siemens and Modbus PLCs
- Bidirectional data exchange between cloud and shopfloor by accessing OPC UA Servers on edgeGate or in OT network via integrated Microsoft OPC Proxy and Publisher components

## 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

## Technical Data

<b>Hardware</b>	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
	<b>Software</b>	IT Network / Cloud Connectivity
Controller Connectivity		RFC1006, Modbus TCP
Maximum Number of Controllers		5
Supported IoT Hubs		Microsoft Azure connected factory, Microsoft Azure IoT Hub, IBM Watson IoT Hub, General Electric Predix, Amazon AWS, etc.
Supported Controllers		Siemens S7-300, S7-400, S7-1200, S7-1500 Modbus TCP-compatible controllers (Schneider Electric, Wago, Beckhoff, Phoenix Contact, etc.)
Supported Engineering Tools		SIMATIC STEP 7, TIA Portal V13, V13 SP1, V14, V14 SP1
<b>Conformity</b>	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
<b>Certifications</b>	CE, FCC, RoHS	

## Scope of Delivery

Hardware	edgeGate
Software	Tool for configuration over integrated web interface, dataFEED Exporter for easy symbol import from Siemens Project Files
Documentation	Quick Startup Guide (printed documentation)

## Order Numbers

GAA-YY-145122	edgeGate
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