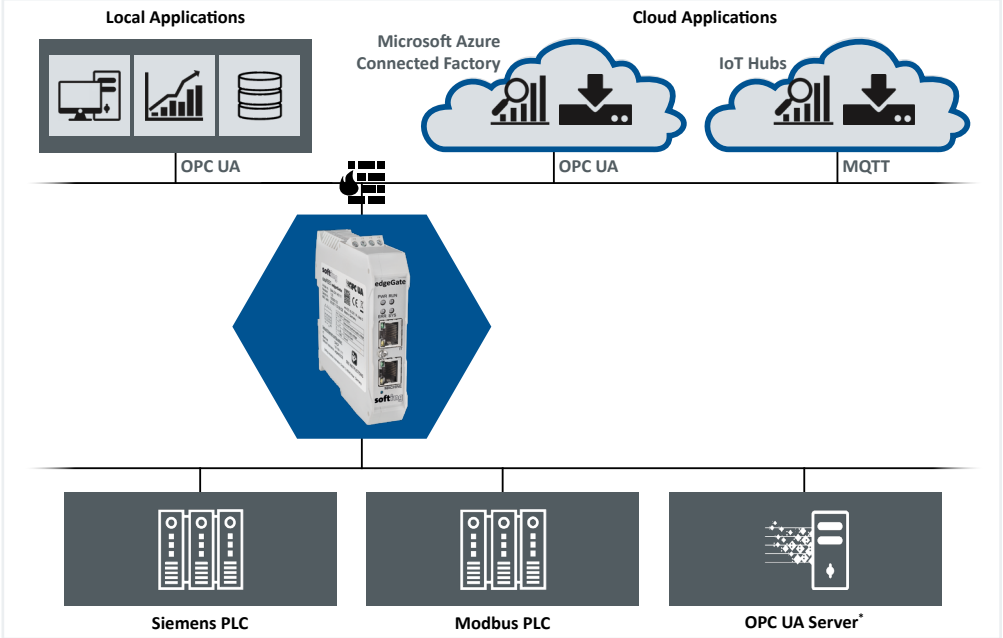
edgeGate

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
- 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 authentification

* when using Microsoft Azure Connected Factory

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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	IT Network / Cloud Connectivity	OPC UA (Server, 60,000 items in total), MQTT (Publisher, up to 1,000 topics)
	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/V14/V15 including Service Packs
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	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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