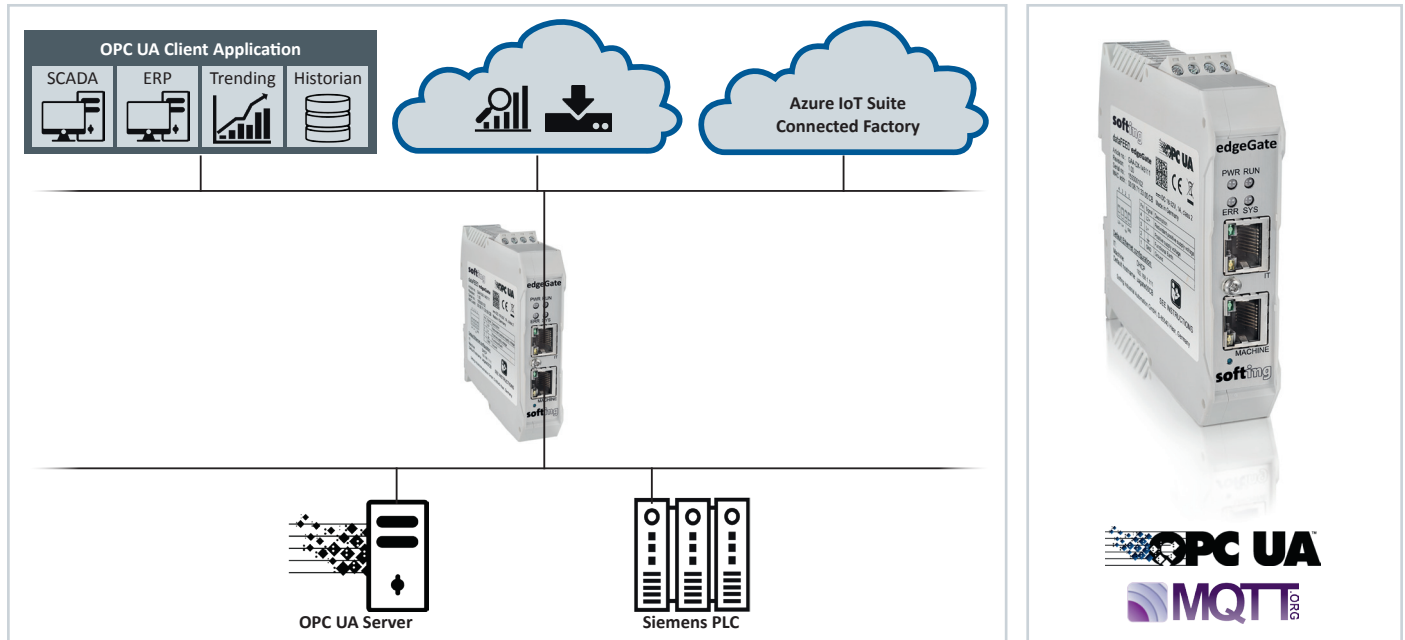


# edgeGate

## Connecting Industrial Networks with IoT Hubs and the Cloud

edgeGate is a gateway connecting industrial networks to IT applications running on-premises or in the cloud. It connects OPC UA Servers and PLCs with applications via OPC UA or the MQTT protocol. In addition, the gateway offers deep integration into selected IoT hubs. With its OPC UA standard compliance, its simple configuration and its security features, the gateway makes it easy to start with small solutions and grow them over time.



### Easy Controller Connectivity

- Connectivity to OPC UA Servers
- Connectivity to Siemens S7 PLCs, symbol import directly from SIMATIC STEP 7 and TIA Portal projects
- Support of OPC UA and MQTT protocols for integrating data into higher level systems or cloud platforms
- Native integration with Microsoft Azure IoT Suite connected factory

### Ultimate Security

- Physically separated network interfaces preventing intrusions
- Individually protected access to PLC data
- Separate configuration rights on controller and IT levels
- OPC UA compliant data encryption and user authentication
- SSL encryption and certificate management for MQTT communication

### Investment Protection

- Suitable for new applications and retrofits, adding modern communication capabilities to existing plants
- Suitable for communication with public and private clouds, with applications running on premises, and with hybrid scenarios
- Support of OPC UA standard and MQTT, allowing for easy migration from small solutions to more complex architectures

### Zero Maintenance

- Hardware gateway – no need for software updates, operating system patches or PC maintenance
- No PLC programming or dedicated PC required
- Failure-free operation for years after device has been plugged-in and configured once
- Built on proven and reliable hardware

## 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	OPC UA (Server, 20,000 items in total), MQTT (Publisher, up to 1,000 topics)
	Native IoT Hub Support	Microsoft Azure IoT Suite connected factory
	Industrial Network Connectivity	OPC UA, Siemens S7-300, S7-400, S7-1200, S7-1500
	Supported Engineering Tools	SIMATIC Step 7, TIA Portal
<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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optimize!  
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