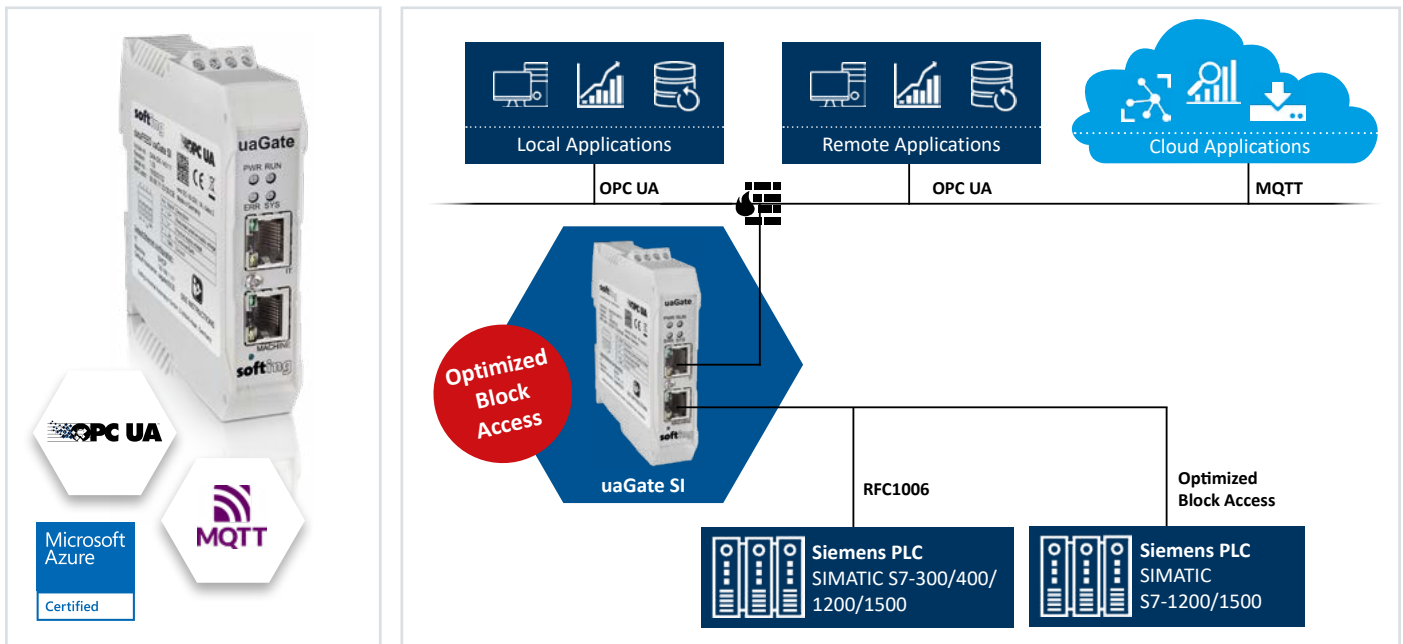# uaGate SI

dataFEED®

OPC UA Server & MQTT Publisher Gateway for SIMATIC S7 Controllers

- **Integration of Modern OPC UA and MQTT Communication Functionality**
- **Easy Access to Data from SIMATIC S7-300/-400/-1200/-1500 Controllers via OPC UA & MQTT**
- **Usage of High Security Standards for Protecting Transferred Data**

OPC UA

Microsoft Azure
Certified

MQTT

Local Applications — OPC UA

Remote Applications — OPC UA

Cloud Applications — MQTT

Optimized Block Access

uaGate SI

RFC1006

Optimized Block Access

Siemens PLC
SIMATIC S7-300/400/1200/1500

Siemens PLC
SIMATIC S7-1200/1500

Access to Siemens PLC Data from OPC UA Applications

- Access to SIMATIC S7-300, S7-400, S7-1200, and S7-1500 controllers
- Support of optimized data blocks in SIMATIC S7-1200 and S7-1500 controllers
- Allow secure S7-1200 and S7-1500 communication with TLS Protocol
- 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
- No PLC programming or dedicated PC required

Optimized for Siemens Integration

- Symbolic names import from Siemens TIA Portal and SIMATIC STEP 7 projects
- Namespace configuration by browsing of SIMATIC S7 1200/1500 variables
- Easy setup of OPC UA Server requiring only a few steps for accessing Siemens PLC data
- Web 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	SIMATIC S7, OPC UA (Server, up to 20,000 OPC UA Nodes), MQTT (Publisher, up to 1,000 topics)
	Supported Controllers	Siemens SIMATIC S7-300/400, SIMATIC S7-1200/1500 (including optimized block access), Siemens-compatible controllers like VIPA controllers
	Supported Engineering Tools	SIMATIC STEP 7, TIA-Portal V13/V14/V15/V16/V17/V18/V19, 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	uaGate SI
Software	Tool for configuration over integrated web interface
Documentation	Quick Startup Guide (printed documentation)

Order Numbers

GAA-DX-145111	uaGate SI

Additional Products and Services

GPA-CS-041000	NETLink S7-Compact (PROFIBUS/MPI to Ethernet adapter for communication with S7-300/-400 PLCs)

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