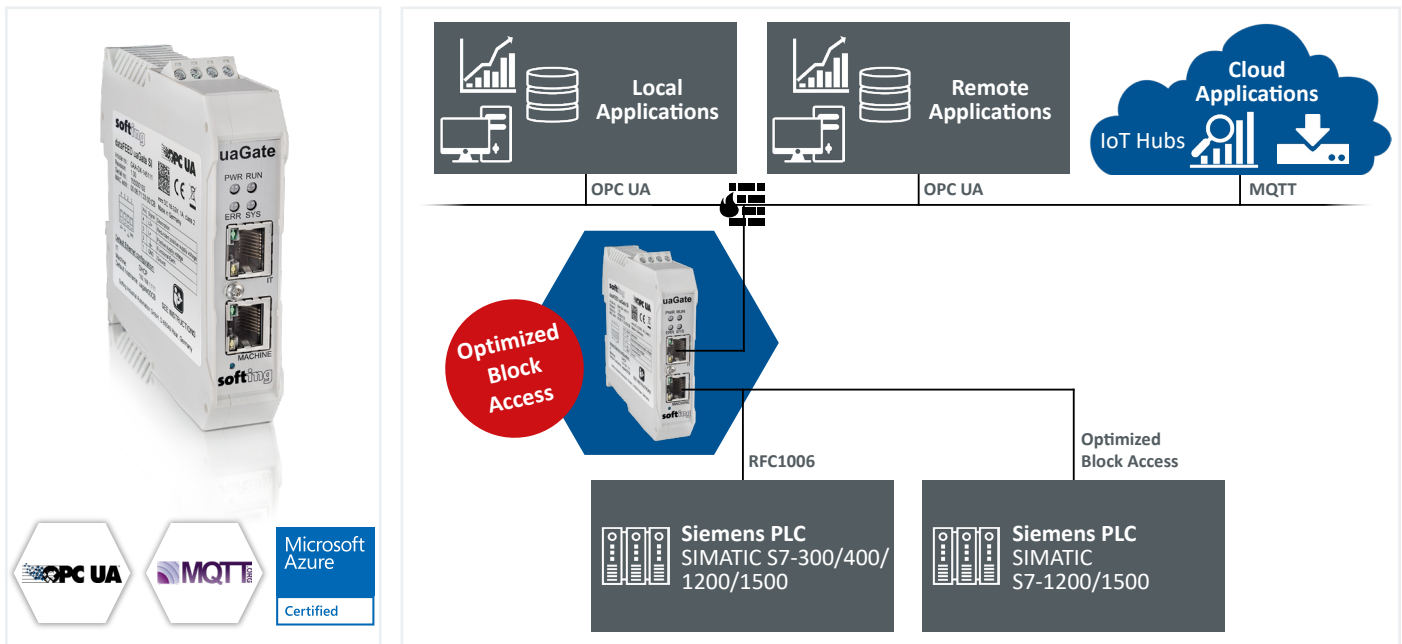


# uaGate SI

Gateway for OPC UA and MQTT Communication Upgrade of Siemens Retrofit Plants

- Integration of Modern OPC UA Communication Functionality
- Easy Integration with Siemens PLCs
- Usage of High Security Standards for Protecting Transferred Data



## 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
- 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 name 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

|                             |  |  |
|-----------------------------|--|--|
| <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<br>Typically 200 mA, maximum 1 A at switch-on  |
|                             | Operating Temperature, Horizontal<br>DIN Rail Installation | -40 °C ... 50 °C (0 mm minimum distance)<br>-40 °C ... 55 °C (22.5 mm minimum distance)  |
|                             | Operating Temperature, Vertical DIN<br>Rail Installation   | -40 °C ... 35 °C (0 mm minimum distance)<br>-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>  | Protocols  |
| Supported Controllers       |  | Siemens SIMATIC S7-300/400, SIMATIC S7-1200/1500 (including optimized block access),<br>Siemens-compatible controllers like VIPA controllers   |
| Supported Engineering Tools |  | SIMATIC STEP 7, TIA-Portal V13/V14/V15 including Service Packs   |
| <b>Conformity</b>           | Emission   | EC Directive 2004/108/EC "Electromagnetic Compatibility", EN 55011, Group 1, Class A<br>EC Directive 2004/108/EC "Electromagnetic Compatibility", EN 55022, Class A<br>EC Directive 2004/108/EC "Electromagnetic Compatibility", EN 61000, Part 6-4<br>FCC CFR45, Part 15 Section 15.107 and 15.109 (Class A),<br>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      | 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<br>(PROFIBUS/MPI to Ethernet adapter for communication with S7-300/-400 PLCs) |
|---------------|--|

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