uaGate MB

Gateway for OPC UA and MQTT Communication Access to Modbus TCP PLCs

- Integration of Modern OPC UA Communication Functionality
- Symbol Import of Controller Data Using Web Interface
- Usage of High Security Standards for Protecting Transferred Data

Access to Data in Modbus PLCs from OPC UA Applications

- Access to Modbus controllers, e.g. from Schneider Electric, Wago, Beckhoff, Phoenix Contact, etc.
- 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
- Minimal PLC programming for register setup required
- No dedicated PC required

PLC Project Data Available for Further Processing

- Symbol import from user-edited text file
- Easy setup of OPC UA Server requiring only a few steps for accessing data in Modbus PLCs
- Web-based 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 authentification
- Security supported for MQTT communication with private and public clouds
## 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)
- **Operating Temperature, Vertical DIN Rail Installation**: -40 °C ... 35 °C (0 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**: Modbus TCP, OPC UA (Server, 20,000 items in total), MQTT (Publisher, up to 1,000 topics)
- **Supported Controllers**: Modbus TCP controllers, e.g. from Schneider Electric, Wago, Beckhoff, Phoenix Contact, etc.

### Conformity
- **Emission**: EC Directive 2004/108/EC “Electromagnetic Compatibility”, EN 55011, Group 1, Class A
  - FCC CFR45, Part 15 Section 15.107 and 15.109 (Class A), VCCI Class A Information Technology Equipment 2002

### Certifications
- CE, FCC, RoHS

### Scope of Delivery
- **Hardware**: uaGate MB
- **Software**: Tool for configuration over integrated web interface
- **Documentation**: Quick Startup Guide (printed documentation)

### Order Numbers
- GAA-YE-145133: uaGate MB

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