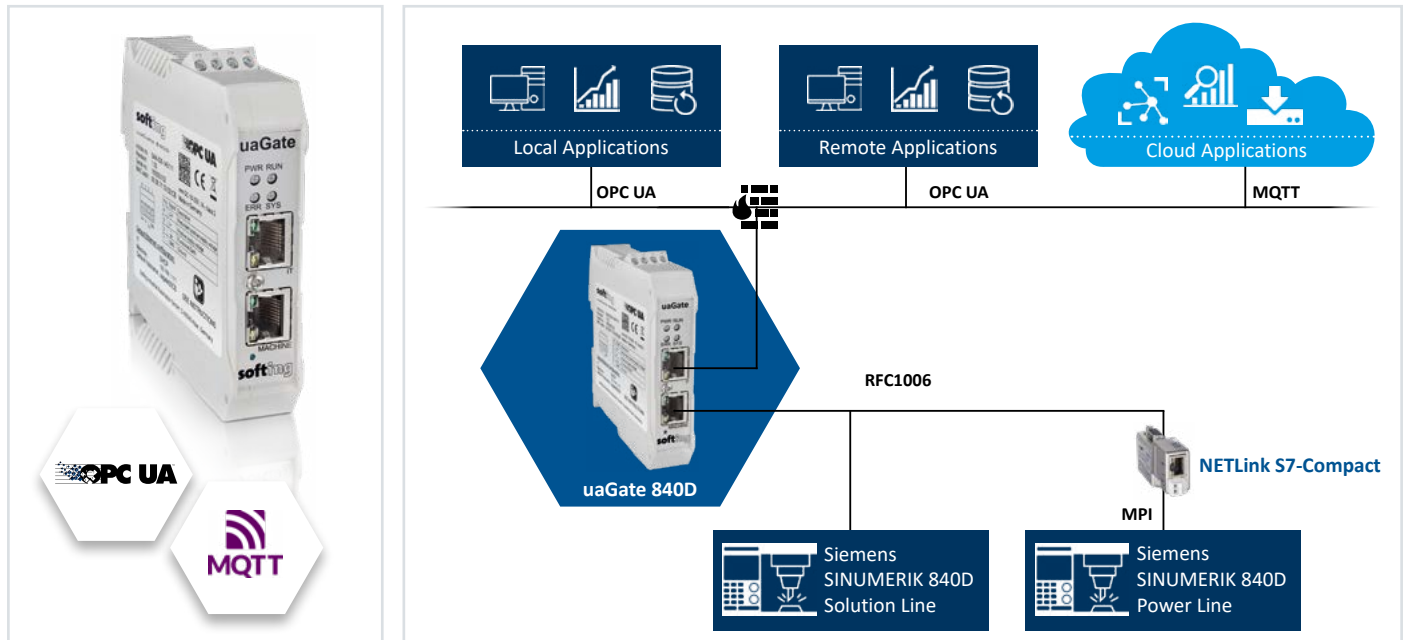


uaGate 840D



OPC UA Server Gateway for Siemens SINUMERIK 840D SL/PL Controllers

- Data Collection from Siemens SINUMERIK Controllers for Condition Monitoring
- Further Data Processing in Applications via OPC UA or MQTT Interface
- Easy and Secure OPC UA Retrofit for Existing and New Numeric Controllers
- Use of High Security Standards for Protecting Transferred Data



Access to Data in PLC, NC, and Drives Areas from Siemens SINUMERIK 840D SL/PL

- Access to many different Siemens SINUMERIK 840D Solution Line and Power Line controllers
- Data integration into higher level management tools like ERP, MES, or SCADA systems
- Embedded OPC UA Server providing open, platform independent communication
- Access to NC area containing axis, tool, program, drive data and specific alarms
- Automatic tool recognition and listing of all available magazines and tools
- Use of data for analysis, condition monitoring, predictive maintenance, or data logging purposes
- No additional Siemens licenses necessary
- Initial configuration without requiring PLC or NC programming

Easy Configuration

- Usage of predefined symbol files for standard configurations for easy commissioning
- Upload of AWL file created from user defined NCVar Selector symbol files for NCK connection
- Easy symbol import from SIMATIC STEP 7/TIA Portal projects for S7 PLC connection
- Gateway configuration using integrated web server and standard web browser

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

uaGate 840D

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
Supported Controllers		Siemens SINUMERIK 840D Solution Line, software version V2.7 and higher Siemens SINUMERIK 840D Power Line, software version V5.3 and higher
Supported Engineering Tools		Siemens NCVar Selector
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 840D
Software	Tool for configuration over integrated web interface
Documentation	Quick Startup Guide (printed documentation)

Order Numbers

GAA-YX-145144	uaGate 840D
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Additional Products and Services

6FC5851-1XC45-4YA8	SINUMERIK 840D SL CNC software and SINUMERIK Operate, toolbox including NCVar Selector (please order directly from Siemens)
GPA-CS-041000	NETLink S7-Compact (PROFIBUS/MPI to Ethernet adapter for communication with SINUMERIK 840D Power Line)

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