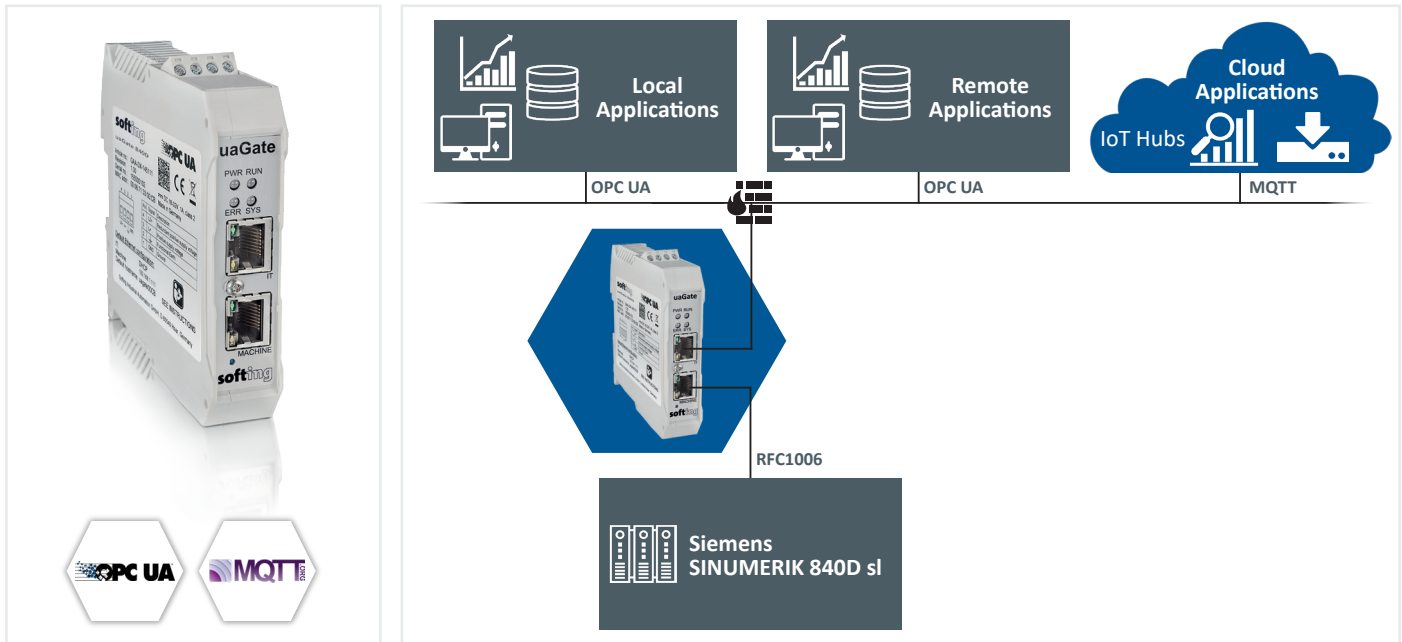


# uaGate 840D

## OPC UA Server Gateway for Siemens SINUMERIK 840D 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



### Access to Data in PLC and NC Area of Siemens SINUMERIK 840D Solution Line

- Access to many different Siemens SINUMERIK 840D sl with NCU type 7x0.3 PN and software version greater V4.3
- 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
- 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 like one channel with four axis and four drives
- 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 Ethernet interfaces protecting SINUMERIK from unauthorized access via IT network
- Support of security standards like SSL/TLS, X.509 certificates and user authentication for OPC UA and MQTT communication

# uaGate 840D

## 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>	Protocols	SIMATIC S7, SINUMERIK, OPC UA (Server, 20,000 items in total), MQTT (Publisher, up to 1,000 topics)
	Supported Controllers	Siemens SINUMERIK 840D Solution Line, software version 4.3 and higher
	Supported Engineering Tools	Siemens NCVar Selector
<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	uaGate 840D
Software	Tool for configuration over integrated web interface
Documentation	Quick Startup Guide (printed documentation)

## Order Numbers

GAA-YX-145144	uaGate 840D
6FC5851-1XC45-4YA8	SINUMERIK 840D sl CNC software and SINUMERIK Operate, toolbox including NCVar Selector (please order directly from Siemens)

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