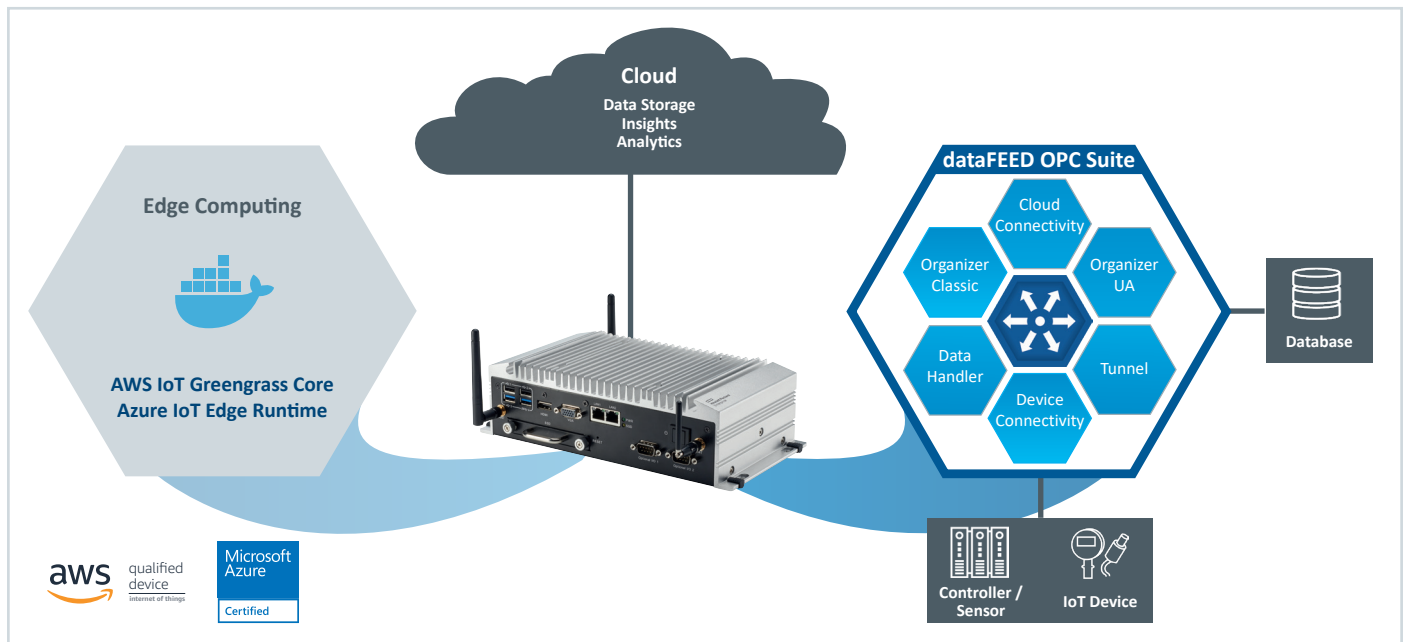


# Industrial IoT Starter Kit

Data Acquisition and Edge Computing for Cloud-based Manufacturing IoT

- Shop Floor Connectivity for Brownfield and Greenfield Integration Projects
- Support for Amazon AWS IoT Greengrass and Microsoft Azure IoT Edge
- Flexible and Secure Solution, Based on Open Standards



## Manufacturing IoT With Amazon Web Services (AWS) and Microsoft Azure

- Support for Amazon AWS and Microsoft Azure reference architectures
- Equally suited for deployment in production as well as for proof of concepts in laboratory environments
- Pre-installation of complete software stack for production connectivity and edge computing

## Best-in-Class Connectivity

- Access to various data sources (controllers, sensors, OPC UA/OPC Classic Server, ...)
- Suitable for data acquisition in brownfield and greenfield integration projects
- No change of security and firewall settings or any other modifications in automation network required

## Industrial Grade Solution

- Reliability of dataFEED OPC Suite proven in more than 10,000 installations
- Microsoft Windows Embedded operating system
- Robust Hardware (HPE GL20)

## Flexible, Open, Easy to Use

- Flexible and secure architecture, supporting OPC UA and other standards
- Minimized configuration and system integration effort
- Easy to use, no expert knowledge required
- Link of production line to Amazon AWS or Microsoft Azure in less than a day

# Industrial IoT Starter Kit

## Technical Data

<b>Software</b>	Operating System	Windows 10 IoT Enterprise 2018
	Amazon AWS	AWS IoT Greengrass Core (Docker image)
	Microsoft Azure	Microsoft Azure IoT Edge Runtime (Docker image)
	Data Acquisition	<b>Softing dataFEED OPC Suite</b>
	Supported Controllers	Siemens S5, S7 (200,300,400,1200,1500) LOGO! 8, PAC Counter and Siemens-compatible controllers like VIPA controllers Rockwell SLC-500, PLC-5, ControlLogix and CompactLogix Mitsubishi Melsec-Q Series with Ethernet interface card B&R controllers with Ethernet interface Modbus TCP-compatible controllers (Wago, Beckhoff, Phoenix, Schneider Electric, etc.) All controllers and devices with integrated OPC UA Server
	Accessible Controller Data	Inputs, outputs, data blocks, markers, timers, counters
	Supported OPC Specifications	OPC Classic Data Access V1.0a, V2.05, OPC Alarms & Events V1.10, OPC Unified Architecture V1.02
	Supported OPC UA Functionality	Data Access profile TCP transport protocol using OPC UA binary coding Security methods Basic256, Basic128Rsa15, None
	Supported OPC Data Types	VARIANT Data Types I1, UI1, I2, UI2, I4, UI4, R4, DATE, BSTR, BOOL and arrays (VT_Array) of these data types
	Protocols for IoT Cloud Link	MQTT Publisher MQTT Publisher V3.1.1, V3.1 QoS, Retain, Last Will and Testament Security SSL/TLS including certificates REST Client TCP, HTTP, HTTPS Methods: PUT, POST Security SSL and user authentication
	Supported Databases	NoSQL databases, for example, MongoDB, CouchDB ODBC enabled databases, for example, Oracle, MySQL, Microsoft SQL Server, IBM DB2, other NoSQL and ODBC-enabled databases upon inquiry
		<b>See dataFEED OPC Suite datasheet for more details</b>
<b>Hardware</b>	Gateway	<b>HPE Gatewayline GL20</b> , i5 Core, 8 GB RAM, 64 GB Industrial SSD <b>See HPE Gatewayline GL20 datasheet for more details</b>
	Interfaces	1x Power 9-36 VDC, 2x Ethernet (10/100/1000 Mbit), 4x PoE (10/100 Mbit), 8 bit DIO, 2x Serial (EIA-232/422/485), 2x USB 2.0, 2x USB 3.0, VGA, HDMI, speaker/microphone/line in

## Scope of Delivery

Hardware	HPE Gatewayline GL20
Software	Pre-installed, including dataFEED OPC Suite
Documentation	Online

## Order Numbers

CCA-YY-140001	Industrial IoT Starter Kit
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## Additional Products and Services

GAA-YY-145122	edgeGate
GAA-DX-145111	uaGate SI
GAA-YE-145133	uaGate MB

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