

# Industrial IoT Starter Kit

Factory Floor Integration in Microsoft Azure Using HPE's GL20 Gateway and Softing's dataFEED OPC Suite

- Head Start in Cloud-based OEE and Manufacturing Analytics
- Extensible and Secure OT/IT Integration Based on Standards
- Versatile Solution With Low Start-up Costs



## Efficient Analysis of Production Data

- Link of production line to Azure IoT Suite Connected factory in less than a day
- Immediate access to valuable business insights generating improved operational efficiency
- Connection to full range of data sources supported by dataFEED OPC Suite
- No change of security and firewall settings required

## Comprehensive Connectivity

- Compliance with OPC UA interoperability standard for industrial communication
- Overall benefit of built-in and proven security
- Application execution in cloud or on premise
- Integration with edge analytics

## Ready-to-Start Scope of Delivery

- Minimized configuration and system integration efforts
- Deployment of multiple applications with just one starter kit
- Support of multiple cloud platforms (Microsoft Azure and others)
- Low maintenance costs and investment protection
- Equally suited for deployment in production as well as for proof of concept in lab environments

# Industrial IoT Starter Kit

## Technical Data

<b>Software</b>	Operating System	Windows 10 IoT Enterprise 2016
	Microsoft Azure Connectivity	Microsoft OPC Proxy, Microsoft OPC Publisher (Docker images)
	Data Integration	<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

**See dataFEED OPC Suite datasheet for more details**

<b>Hardware</b>	Gateway	<b>HPE Gatewayline GL20</b> , i5 Core, 8 GB RAM, 64 GB Industrial SSD
	Interfaces	<b>See HPE Gatewayline GL20 datasheet for more details</b> 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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