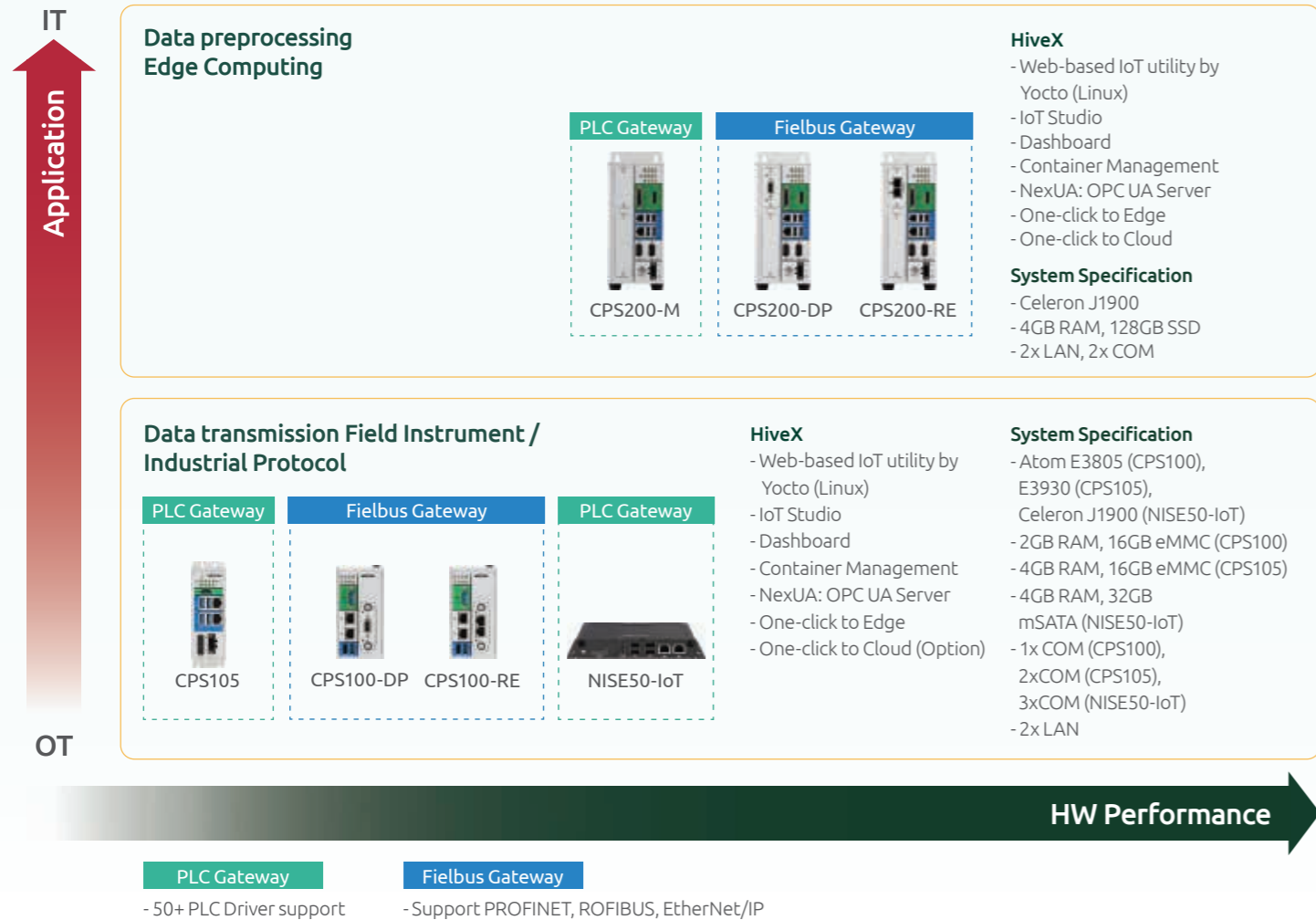


PLC Gateway & Fieldbus Gateway Portfolio/Positioning



Streamlined Integration from OT to Cloud: SaaS in Real Practice

The NexAIoT PLC Gateway is an IoT gateway designed for Smart Factory scenarios. Ready for deployment at the edge in simple steps, it is powerful to enable the digital transformation in manufacturing. The appliance offers streamlined data transmission across the manufacturing site, from OT facilities all the way to clouds. With support for multiple industrial protocols, the built-in HiveX system boasts comprehensive connectivity across major brands of PLC, power meters, and sensors. Tasks such as system configuration and IO resources allocation could be performed through drag-and-drop. A full integration of multiple cloud services, such as AWS IoT Greengrass, Siemens MindSphere, and Azure IoT Hub, ensures data collection, upload and processing are completed in a matter of clicks.

- HiveX**
 - Web-based IoT utility by Linux (Yocto)
 - IoT Studio:
 - › Drag-and-drop UI for IoT/Field
 - › Device/Data Source preprocessing & Data-Patch Define with node.js
 - Container development platform
 - Node-Red data path development platform
 - Dashboard: Visualization for IoT Studio
 - NexUA: OPC UA Server
- Seamless and flexible IIoT protocol**
 - Supports Industrial PLC protocols
 - › Modbus TCP/RTU, Allen-Bradley, Delta, FATEK, Hitachi, HUST, KEYENCE, KOYO, Lust, Mitsubishi, MOTRONA, Omron, OTEX, Panasonic, Siemens, TECO, Toshiba, Vigor, Yamatake, Yokogawa
 - › PROFINET, EtherNet/IP, PROFIBUS
 - IoT communication protocols
 - › OPC UA, MQTT, RESTful API, HTTPs
- Integrated application of OT/IT/IoT**
 - Data Node
 - › csv, JSON, XML, MySQL
 - Supports Internet/Mail/IoT/library...etc
- Pre-installed dashboards & widgets**
 - Basic Widgets (3D Bar Chart, Data Table, Gauge...)
 - › Industrial Widgets (Heater, Motor, Pump...)
 - › NVD3 Widgets (Bullet Chart, Bubble Plot, Pie...)
- Support technology and function of cloud service development**
 - Integrates AWS IoT Greengrass and IoT Greengrass ML Inference
 - Integrates Siemens Mindconnect node to Siemens MindSphere
 - Integrates Azure IoT Hub node to Intel Azure cloud
 - One-click to Edge
 - One-click to Cloud

Ordering Information

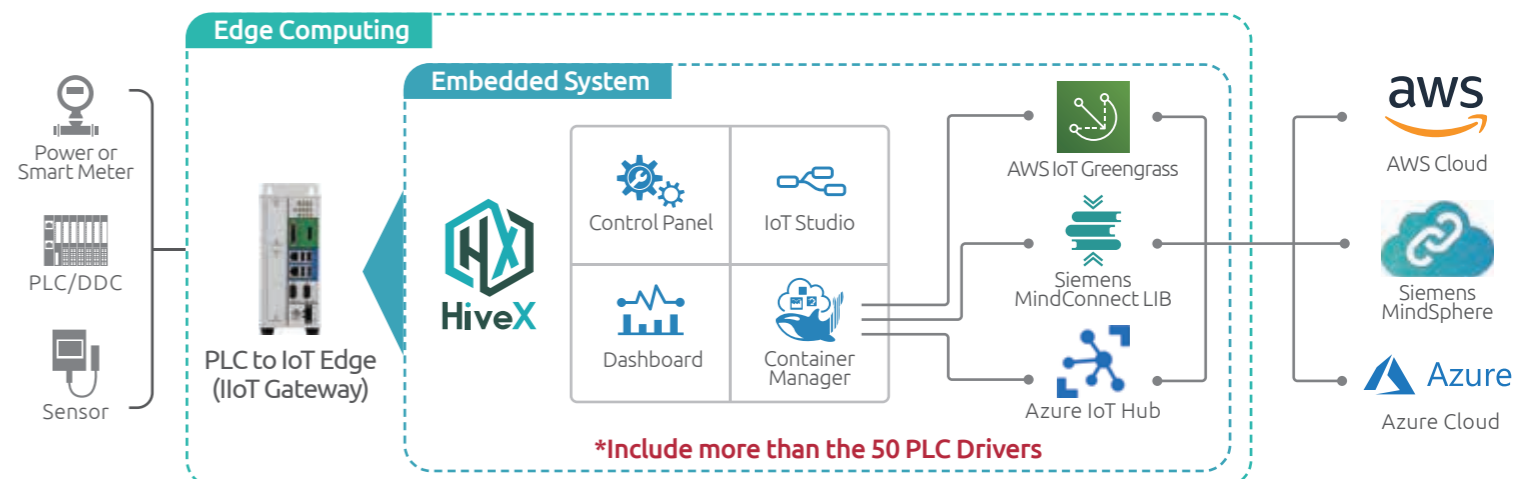
- NISE50-IoT (P/N: 10J00105029XR)**
product includes the following components:
 - NISE50-J1900 (P/N: 10J00005029X0) (China: 10J00005039XC)
 - 32G MSATA (P/N: 73ED032G03X00 or same level)
 - 4G RAM DDR3L SO-DIMM (P/N: 729BM04G59X00 or same level)
 - HiveX (P/N: 6014605309X00)
- CPS100-RE (P/N: 10JC0010001X0)**
- CPS100-DP (P/N: 10JC0010000X0)**
- CPS105 (P/N: 10J70010501XR)**
product includes the following components:
 - NIFE105 (P/N: 10J70010500X0)
 - HiveX (P/N: 6014605309X00)
- CPS200-M (P/N: 10J70020004XR)**
product includes the following components:
 - NIFE200 (P/N: 10J70020000X0)
 - 128G SSD (P/N: 73SE128G38X00 or same level)
 - 4G RAM DDR3L SO-DIMM (P/N: 729BM04G27X00 or same level)
 - HiveX (P/N: 6014605309X00)
- CPS200-DP (P/N: 10JC0020000X0)**
- CPS200-RE (P/N: 10JC0020001X0)**

- 4G/Wi-Fi (optional)**
 - **EC-25E (P/N: 10JC0020005X0)**
4G Module PCI-E Mini Card Quectel: EC-25E for CPS Series (Asia/Europe)
 - **EC-25J (P/N: 10JC0020004X0)**
4G Module PCI-E Mini Card Quectel: EC-25J for CPS Series (Japan)
 - **EC-25AF (P/N: 10JC0020003X0)**
4G Module PCI-E Mini Card Quectel: EC-25AF for CPS Series (USA)
 - **AW-NB159H (P/N: 10J0NB15900X0)**
WIFI PCI-E MINI CARD AZUREWAVE:AW-NB159H for NISE/NIFE (A100)
 - **WPEA-121N (P/N: 10J00121N00X0)**
WIFI PCI-E MINI CARD SPARKLAN:WPEA-121N for NISE/NIFE

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Specifications

		PLC Gateway			Fieldbus Gateway	
Model		CPS105	NISE50-IoT	CPS200-M	CPS100-RE CPS100-DP	CPS200-RE CPS200-DP
HiveX	Control Panel	V	V	V	V	V
	IoT Studio & Dashboard	V	V	V	V	V
	Container Management	V	V	V	V	V
	Web-based IoT utility	V	V	V	V	V
	NexUA: OPC UA Server	V	V	V	V	V
	One-click to Edge	V	V	V	V	V
	One-click to Cloud	Optional	Optional	V	Optional	V
PLC Connectivity node	Modbus TCP/RTU	V	V	V	V	V
	Siemens S7 Communication (ISO-on-TCP)	V	V	V	V	V
PLC Driver Support	PROFIBUS(Slave) & PROFINET-RT(Slave) & EtherNet/IP(Producer)	-	-	-	RE: PROFINET-RT(Slave) & EtherNet/IP(Producer) DP: PROFIBUS(Slave)	
	PLC Driver List	V	V	V	-	-
IoT Connectivity node	MQTT Publisher/Broker/Subscriber	V	V	V	V	V
	HTTP/HTTPS	V	V	V	V	V
	RESTful API (http request)	V	V	V	V	V
	TCP Socket	V	V	V	V	V
	OPC UA Client	V	V	V	V	V
	Websocket	V	V	V	V	V
	Siemens MindConnect LIB	V	V	V	V	V
	Microsoft Azure IoT Hub	V	V	V	V	V
Data node	AWS IoT Greengrass	V	V	V	V	V
	csv	V	V	V	V	V
	JSON	V	V	V	V	V
	XML	V	V	V	V	V
CPU & Memory	MYSQL	V	V	V	V	V
	CPU	Intel Atom E3930 (1.8GHZ, 2C2T, 6.5W)	Intel Celeron J1900 (1.8GHZ, 2C2T, 6.5W)	Intel Celeron J1900 (1.8GHZ, 2C2T, 6.5W)	Intel Atom E3805 (1.33GHZ, 2C2T, 3W)	Intel Celeron J1900 (2.42GHZ, 4C4T, 10W)
	Chipset	Apollo Lake	Bay Trail	Bay Trail-D	Bay Trail-I	Bay Trail-D
	Memory	4GB DDR3L	4GB DDR3L	4GB DDR3L	2GB DDR3L	4GB DDR3L
Graphis	DVI	-	-	1 (DVI-I)	-	1 (DVI-I)
	HDMI	1	1	-	-	-
	DP (Display Port)	-	-	1	-	1
	eDP connector	-	1	1	-	1
Storage	Storage	16GB eMMC	32G mSATA	128G SSD	16GB eMMC	128G SSD
	mSATA Supported	V	-	V	V	V
	SD Card	-	-	1	-	1
External I/O	USB	4 x USB3.0	4 x USB2.0	1 x USB 3.0 3 x USB 2.0	1 x USB3.0 1 x USB2.0	1 x USB 3.0 3 x USB 2.0
	LAN Ports	2 x GbE	2 x GbE	2 x GbE	2 x GbE	2 x GbE
Serial & GPIO	Serial Port (External) * : isolation	2 x RS232/422/485*	2 x RS232, 1 x 422/485	2 x RS232/422/485*	1 x RS232/485*	2 x RS232/422/485*
	GPIO internal	-	-	4-in/4-out (internal)	-	4-in/4-out (internal)
Expansion	miniPCIe	2	3	2	2	2
	SIM Card Holder	1	1	1	1	1
Power	Power Input Range	24V DC	12V DC	24V DC	10...28V DC	24V DC
	Power Supply Adapter	Optional	Optional	Optional	Optional	Optional
Mechanical	System Dimension (WxDxH)	46.2 x 100 x 120 mm	162 x 26 x 150 mm	85 x 157 x 214 mm	63 x 100 x 151 mm	85 x 157 x 214 mm
	Net weight	0.7kg	0.87kg	2.15kg	0.65kg	2.2kg
OS	Linux Yocto	V	V	V	V	V

Supported (PLC) Drivers

Brand	Series	Brand	Series
Allen-Bradley	CompactLogix Ethernet	Omron	C Series
	Controllogix Ethernet		CS/CJ Series
	MicroLogix DF1 RS232		CS/CJ Series FINS TCP
	MicroLogix Ethernet	OPTEX	CD33 Series Sensor
	Micro800 Ethernet		CD5 Series Sensor
		PLCS DF1 CRC	Panasonic
Delta	DVP	Siemens	S7-200
FATEK	FBs/Fbe		S7-200/300/1200/1500 (ISO TCP)
	B1/B1z		S5 PG Port
	FBs/Fbe TCP	TP02 Series	
Hitachi	B1/B1z TCP	TECO	TP03 Series
	Hitachi EH/EHV Series TCP/UDP		AC Servo TSDA Series
	MICRO-EHV	Toshiba	TMFCD91A
KEYENCE	KV-1000	Vigor	VB/VH/M Series
	KV-L20V Host Link/KV-nano		VS Series
	KV-3000/5500 Series		VS TCP
	KV-5000 Series		VS UDP
KOYO	DL Series	Yamatake	DCP30
Lust	LustBus ServoC/CDE Series		DMC50
Mitsubishi	A Series/J71UC24 Computer Link		SDC35/SDC45
	A Series/J71 for AnA/AnU	NX-D15/25	
	A Series/J71 Format4	Yokogawa	FA-M3 Series TCP
	FR Series/A700		Led Controller
	FX Series	Accessories	Scale
	FX/FX2N Series Computer Link		Barcode Reader
	FX2N Series		Barcode Printer
	FX3U Series	Agilent	XGS-600 Gauge Controller
	FX3U Series Computer Link	ANIMATICS	SmartMotor D-style RS232
	FX3U Ethernet	BACnet	BELIMO T24-V42BAC
Q Series	CTC	CTC Binary	
Q Series Computer Link	Delta	Delta DVP v2	
Q Series Ethernet	ESTIC	Handy2000 Type4	
FX5U Ethernet	MKS	MKS MC700	
Servo MR-J4	PBA Systems	MaxTune VarcCom with checksum	
MODBUS	MODBUS ASCII Slave	RGB	RGB LED
	MODBUS RTU Slave		WINMO DPA
	MODBUS RTU Master	WINMO	WINMO DPB
	MODBUS TCP Slave		WINMO DPC
	MODBUS TCP Master		WINMO DPD
			WINMO DPE
		WINMO DPF	