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Industrial Wireless Interfaces Stand-Alone Gateways

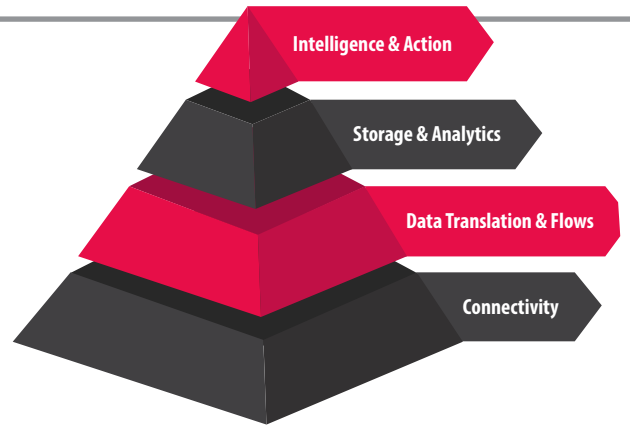




Leverage the IIoT

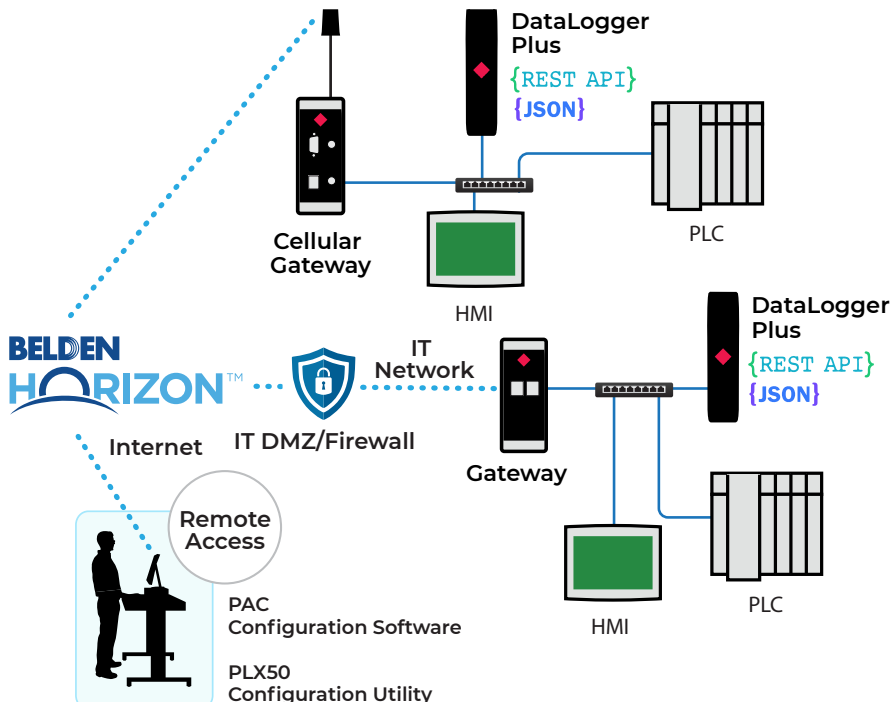
Collect, store, and analyze data to realize measureable business improvements.

There's operational data within nearly every piece of equipment in your facility – and you can use it to make changes that will positively affect your facility. ProSoft's in-chassis modules and standalone gateways have been used for nearly 30 years to connect disparate equipment, the first step on the path to showing ROI from your IIoT improvements.



Secure Remote Connectivity

ProSoft's suite of remote connectivity solutions is designed to help you gain secure, streamlined access to your remote equipment from one cloud-native platform that you can access from anywhere, reducing your support travel costs.



Belden Horizon Platform

- Belden Horizon™ is a cloud-native platform which uses your PC's operating-system VPN, which minimizes the need for user-installed software
- EasyBridge™ technology enables your PC to act like it is connected directly to a switch on the remote network
- Allows automation device configuration tools to work without routing
- Single Sign-On (SSO) allows IT to monitor and manage user access
- Virtual Lockout-Tagout™ gives the end user complete control of access to remote equipment
- Multi-layered defense-in-depth (digitally signed firmware, 256-bit AES encryption, Token-based 2FA, and much more) approach keeps your data and equipment safe



Belden Horizon Lite App

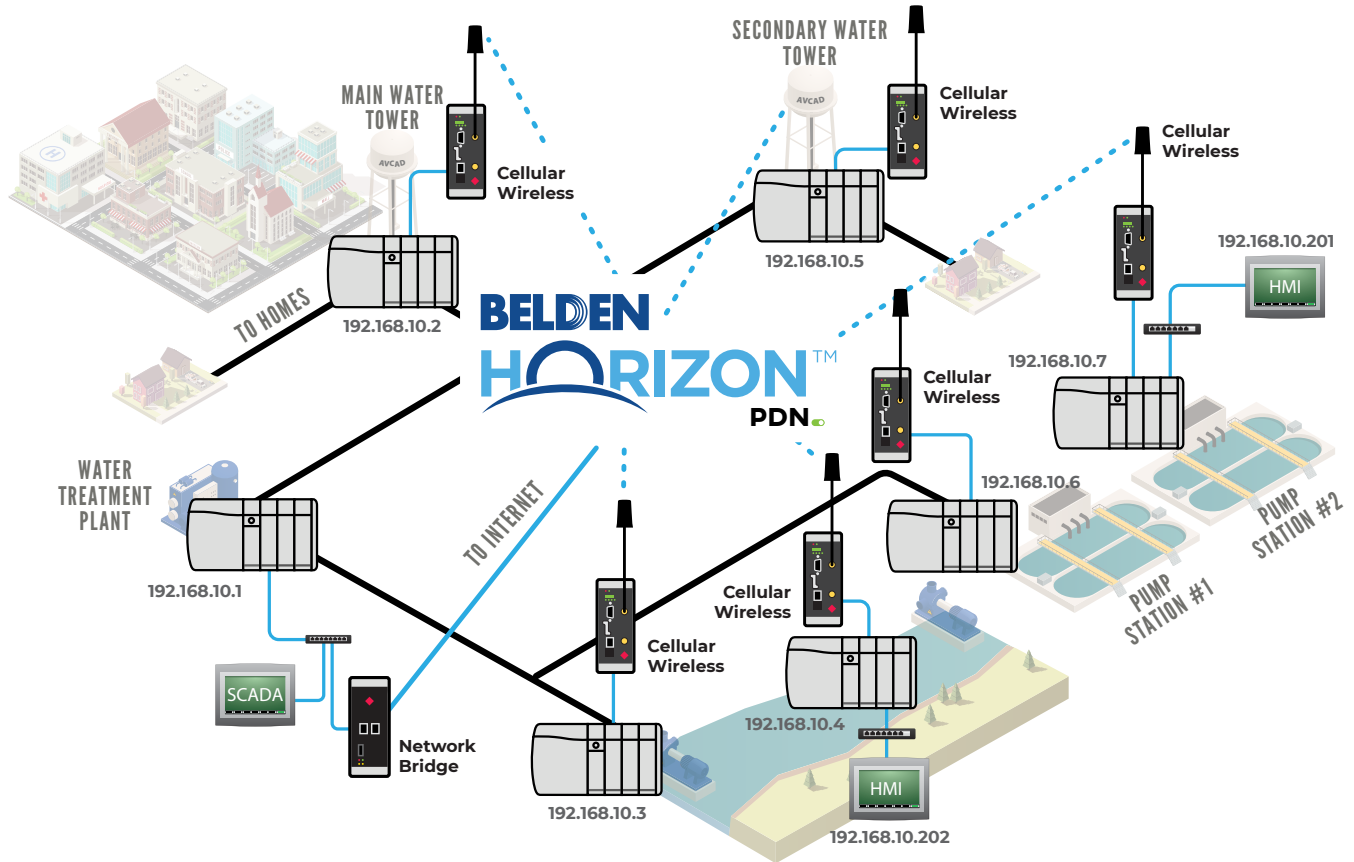
What if you're not at your desk or office when the customer call comes in, or sitting on a beach and your customer calls in with a critical issue? You don't have to give up that view or worry you'll upset your customer - Belden Horizon has gone mobile and the app is available to download on the iOS or Android platform!



The best IIoT steps for your operation
psft.com/DB5

Persistent Data Network

- Simple, Secure, Managed always-on remote infrastructure communications network
- Access via Belden Horizon platform to monitor and troubleshoot each site in your network



Gateways

Industrial Cellular Gateway (ICX35-HWC)

- 4G LTE cellular or wired access via WAN/LAN port
- Verizon and AT&T Certified
- Ethernet port available for Internet connection or SIM card
- Monitor and manage via Belden Horizon

Network Bridge (PLX35-NB2)

- Wired remote access
- Monitor and manage via Belden Horizon

Data Logger Plus (PLX51-DLPLUS-232)

- Features support for REST API enabling easy exporting of
- Features an integrated webserver to trend variables and upload logged data
- Ideal for remote sites with limited communications that need to log data
- Can help OEMs identify operational issues and improve OEE
- Data can be manually downloaded as .csv file

Case Study: Being able to securely troubleshoot through a Web platform provided flexibility.
psft.com/DCE

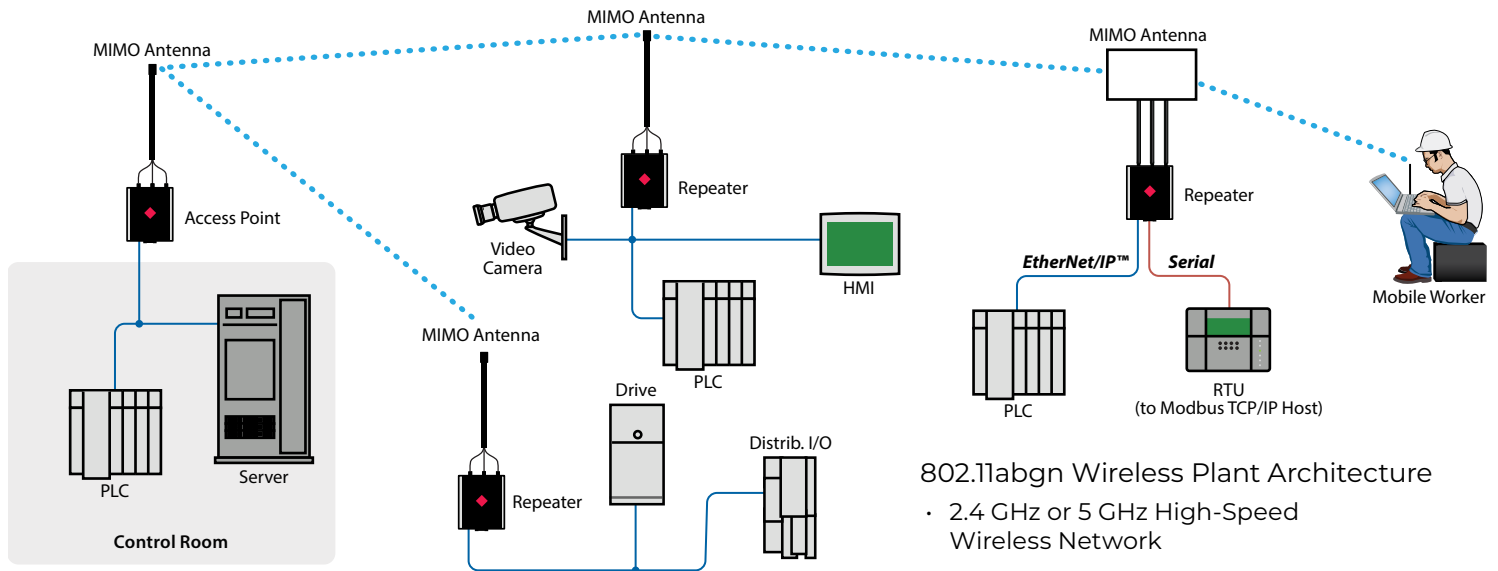
Learn More about Secure Remote Connectivity
psft.com/DB7

802.11n (abgn) Fast Industrial Hotspots

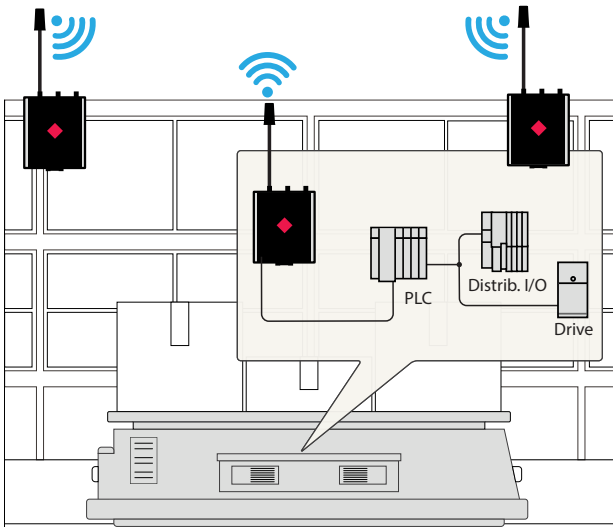


- Ultra-Fast access point switchover times of less than 10 ms are perfect for applications such as automated storage-retrieval systems, AGVs, and automotive skid lines
- EtherNet/IP™ embedded object and Modbus® agent support lets users get radio diagnostics into their PAC/PLC, where the information can be analyzed and acted upon, helping to reduce downtime
- Radios support wireless safety Ethernet networks, ideal for automated material handling applications
- Secure digital configuration storage for quick field replacement

2.4 GHz and 5 GHz High-Power Industrial Hotspots are also available for longer-distance applications.



AGV Communications



Radiating Cable 2.4 and 5 GHz Band

Acting as a long, flexible antenna, Radiating Cable is an alternative to traditional RF antenna systems.



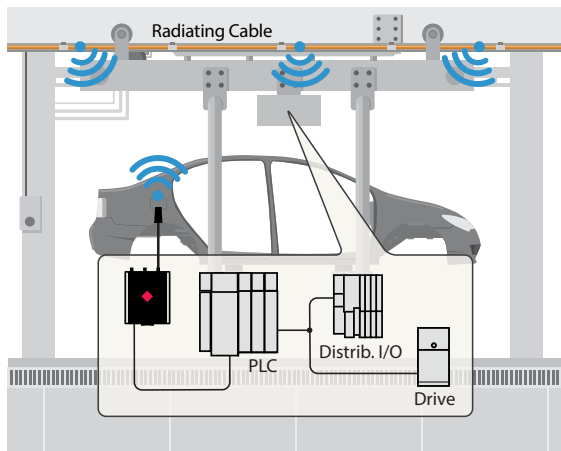
Features

- Special coaxial shield design uses slots to radiate RF Signals
- Available in variable lengths
- Pre-assembled cable for easy installation
- Frequency Range: 2.4 GHz, 5 GHz to 6 GHz

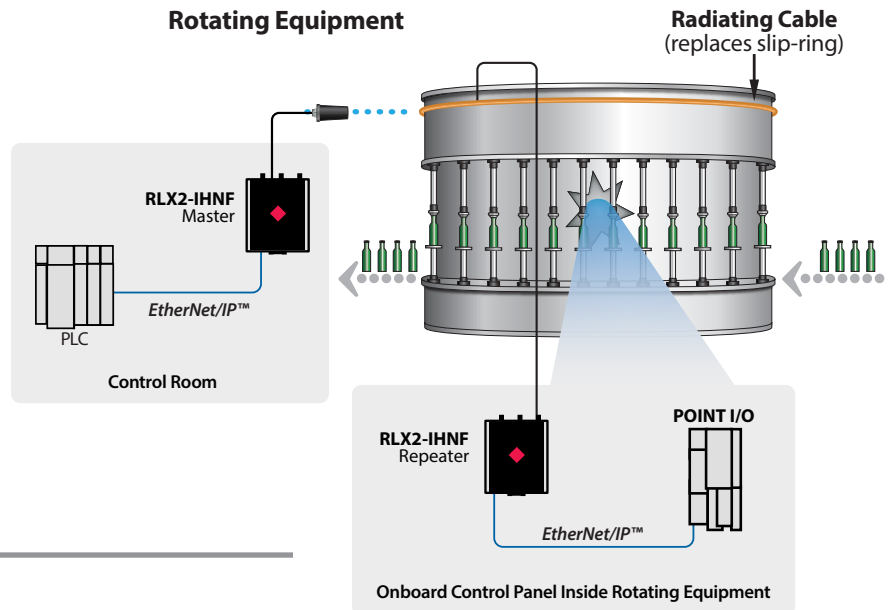
Benefits

- Wireless signal more stable in terms of response time – useful in communicating with I/O
- Used in metallic environments, rotating/spinning machines, conveyors, AGV, warehousing, and more

Automotive Skillet Line Communication



Rotating Equipment



802.11n (abgn) Fast Watertight Industrial Hotspots

- IP67 water/dust rated
- Designed for extreme temperatures (-40° to +70°C), high vibration/shock and hazardous locations (UL C1D2, ATEX Zone 2)
- Ultra-Fast Roaming with under 10 ms switchover times maintains connections for moving machines/platforms
- Power over Ethernet (PoE)
- QoS and VLAN for optimum traffic management
- WPA/WPA2-Personal (PSK, AES and/or TKIP)
- WPA/WPA2-Enterprise (IEEE 802.1X/RADIUS, AES and/or TKIP)



How to benefit from radiating cable
psft.com/CXL



High-Performance PROFIBUS DP Gateways

The widespread use of PROFIBUS in process and factory applications requires a reliable, scalable solution. ProSoft's PROFIBUS DP Master and Slave Gateways were designed with these demanding applications in mind.

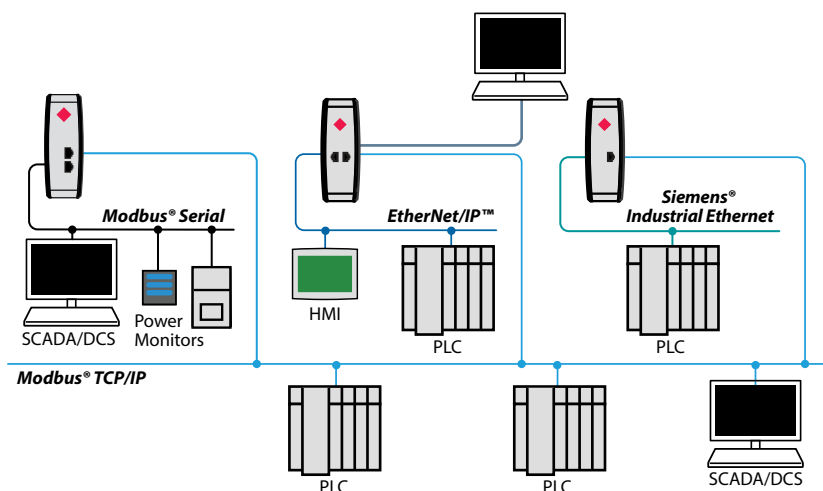
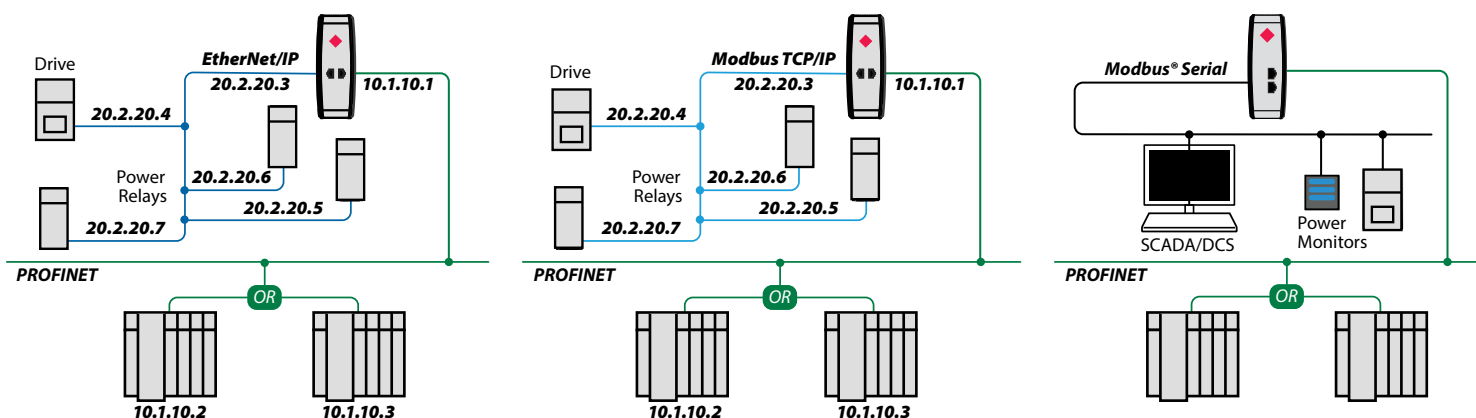
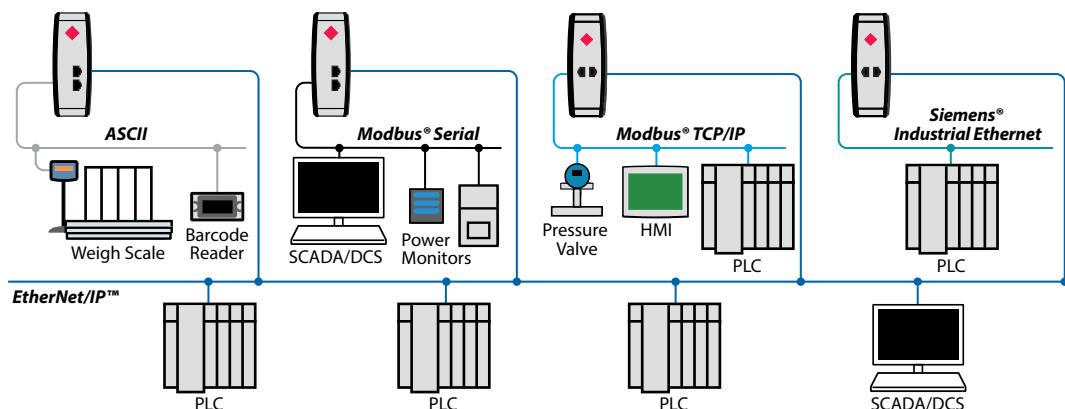
- **No separate troubleshooting equipment:** The built-in PROFIBUS DP packet capture utility allows the modules to monitor network communications and view PROFIBUS DP raw packets for troubleshooting.
- **Device Level Ring networks and dual subnet support:** Adapt the modules based on your application – you can opt for a DLR network, or use the two-port switch option to daisy-chain to other Ethernet devices.
- **Quick setup and configuration** thanks to the PLX50 Configuration Utility
- **Emulate up to 10 slave devices on your network** while in Multi-Slave mode. This allows you to greatly increase the amount of cyclic I/O data exchanged with a master device.

Ethernet and Serial Gateway Solutions

ProSoft Technology's stand-alone, DIN-rail mounted industrial gateways provide a means to read or write data from devices on dissimilar protocols. All gateways come with our ProSoft Discovery Service feature. With PDS, you don't have to change your PC to the default subnet of the module, saving you time during setup.



- Gateways with two Ethernet ports allow you to isolate networks, passing only the data you want between devices
- EtherNet/IP gateways support multiple I/O connections for fast real-time data
- Remote configuration and diagnostics via Ethernet
- SD Card slot for disaster recovery of configuration data
- Up to four Serial ports



Modbus® TCP Features

- Supports 10 Clients and 10 Server connections
- Multiple clients and servers allow HMIs, SCADA systems, PLCs, and other clients to send and receive data

PROFIBUS DP and many other protocols are also available.

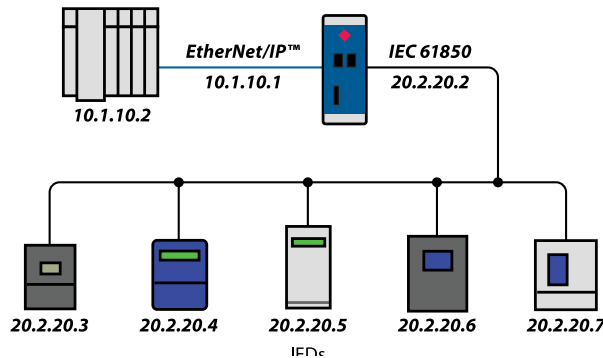
IEC 61850 to Modbus® TCP/IP or EtherNet/IP™ Gateways



- Allows compatible IEC 61850 devices such as relays and IEDs to interface with HMI, SCADA, or DCS systems
- Imports IEC 61850 configuration files from relays and utilizes drag-and-drop interface to map the data
- Extended diagnostic information available in configuration software

Other Energy protocols available:

- DNP3 Serial and Ethernet
- IEC 60870-5-101
- IEC 60870-5-104

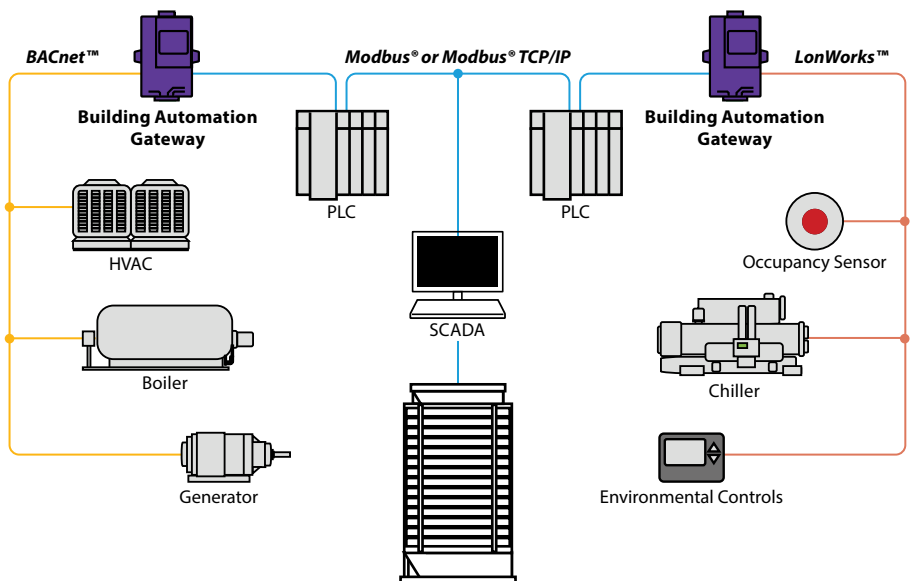


Building Automation Gateways

ProSoft Technology's Building Automation Gateways connect PLCs to building automation systems and devices such as HVAC controls, VFD, generators, VAV, boiler controls, chillers, air conditioners, fume hoods, and others.

The gateways enable communication between common building automation protocols, like **LonWorks™**, **BACnet™/IP**, **BACnet™ MS/TP**, and **JCI Metasys® N2** networks, and several of the more pervasive serial and Ethernet protocols, including Modbus®, Modbus® TCP/IP, and EtherNet/IP™.

These stand-alone alternatives serve applications where an in-chassis solution is not available.



Model	802.11abgn Weatherproof Industrial Hotspot	802.11abgn Fast Industrial Hotspot	Industrial Cellular Gateway
	RLX2-IHNF-W(C)	RLX2-IHNF	ICX35-HWC
Features & Specifications			
Device Connectivity	Ethernet	Ethernet/Serial	Ethernet/Serial
Frequency Band(s)	2.4 & 5 GHz	2.4 & 5 GHz	Cellular
Regions Unlicensed Use Allowed. Check for product availability in your country.	Global	Global	Global
Wireless Technology	IEEE 802.11abgn	IEEE 802.11abgn	4G LTE Cellular HSPA
Max Outdoor Range (miles/km)	5 mi / 8 km	5 mi / 8 km	Unlimited
Fast Roaming	Yes	Yes	N/A
Repeater Mode	Yes	Yes	N/A
Max RF Data Rate	300 Mbps	300 Mbps	N/A
Security/Encryption	802.11i / 128 bit AES	802.11i / 128 bit AES	Internal Firewall, Belden Horizon VPN, OpenVPN, IPSec
RF Based IGMP Querying	Yes	Yes	N/A
Self-Healing Network	Yes	Yes	N/A
Advanced Diagnostics (signal strength LEDs, web server, network management software, OPC tag server, SNMP)	Yes	Yes	N/A
Hazardous Location Approvals	Class 1, Div 2 / Atex Zone 2 (WC)	Class 1, Div 2 / Atex Zone 2	Class 1, Div 2
Outdoor/Wash Down Rated Model	IP67	N/A	N/A
Wireless Applications			
Long-Range SCADA	N/A	N/A	Yes
Short-Range SCADA	Yes	Yes	Yes
Mobile Worker (Wi-Fi)	Yes	Yes	N/A
EtherNet/IP™ Object	Yes	Yes	Yes
EtherNet/IP™ Implicit Messaging (High-Speed I/O)	Yes	Yes	N/A
Serial DF1, ASCII, Modbus®, DNP3, etc.	N/A	Yes (encapsulation)	Yes (encapsulation)
Video	Fast Frame Rate	Fast Frame Rate	Yes
Check for product availability in your country.			

Protocol/Application										
Application / Protocol	Allen-Bradley® Remote I/O™	ASCII	'C' Programmable Serial	DF1 Master/Slave	DNP3 Serial	DNP3 Ethernet	EtherNet/IP™	Data Logging	JSON/Rest	HART® Multi-drop (4 channels)
Allen-Bradley® Remote I/O™							5210-DFNT-RIO			
ASCII				5102-DFCM4-ASCII3			PLX31-EP-ASCII PLX31-EP-ASCII4			
BACnet®/IP				PS-QS-1010-0781 (250 Point) PS-QS-1510-0781 (500 Point)			PS-QS-1010-0780 (250 Point) PS-QS-1510-0780 (500 Point)			
BACnet® MS/TP				PS-QS-1010-0781 (250 Point) PS-QS-1510-0781 (500 Point)			PS-QS-1010-0780 (250 Point) PS-QS-1510-0780 (500 Point)			
DF1 Master/Slave				5102-DF53-DFM 5102-MCM4-DFCM4 PLX51-DL-232	5102-DNPM-DFCM3 5102-DNPS-DFCM3		PLX51-DF1-ENI PLX51-DF1-MSG 5202-DFNT-DFCM4			
DNP3 Serial				5102-DNPM-DFCM3 5102-DNPS-DFCM3			5201-DFNT-DNPM 5201-DFNT-DNPS			
DNP3 Ethernet							5201-DFNT-DNPSNET			PLX51-HART-4I (4 Channels) PLX51-HART-4O (4 Channels)
EtherNet/IP™	5210-DFNT-RIO	PLX31-EP-ASCII PLX31-EP-ASCII4		5201-DFNT-DFCM 5202-DFNT-DFCM4 PLX51-DF1-ENI PLX51-DF1-MSG	5201-DFNT-DNPM 5201-DFNT-DNPS	5201-DFNT-DNPSNET	PLX51-DL-232 PLX35-MB2			PLX51-HART-4I (4 Channels) PLX51-HART-4O (4 Channels)
HART® Analog						PLX51-HART-4I PLX51-HART-4O	PLX51-HART-4I			
HART® Multi-drop						PLX51-HART-4I PLX51-HART-4O	PLX51-HART-4I			
IEC 60870-5-101 Slave				5102-DFCM3-101S						
IEC 60870-5-104 Server							5201-DFNT-104S			
IEC 61850							PLX82-EP-61850			
LonWorks™				PS-QS-1011-0783 (250 Point) PS-QS-1511-0783 (500 Point)			PS-QS-1011-0783 (250 Point) PS-QS-1511-0783 (500 Point)			5107-MCM-HART
Metasys® N2				PS-QS-1010-0782 (250 Point) PS-QS-1510-0782 (500 Point)			PS-QS-1010-0782 (250 Point) PS-QS-1510-0782 (500 Point)			
Modbus® Serial		5102-MCM4-ASCII3	5102-MCM4-ADM4		5102-DNPM-MCM3 5102-DNPS-MCM3	5201-DNPSNET-MCM 5202-DNPSNET-MCM4	PLX31-EP-MBS PLX31-EP-MBS4			PLX51-HART-4I
Modbus® TCP/IP	5210-MNET-RIO	5201-MNET-ASCII 5202-MNET-ASCII4	5202-MNET-ADM4	5201-MNET-DFCM 5202-MNET-DFCM4	5201-MNET-DNPM 5201-MNET-DNPS	5201-MNET-DNPSNET	PLX31-EP-MBTC PLX32-EP-MBTC PLX32-EP-MBTC-UA			5507-PDPS-HART
OPC UA							PLX32-EP-MBTC-UA			
PROFIBUS DP		5105-ASCII-PDPS		5104-DFCM-PDPM 5105-DFCM-PDPS	5105-DNPS-PDPS	5205-DNPSNET-PDPS	5204-DFNT-PDPMV1 5205-DFNT-PDPS			
PROFINET							PLX31-EP-PND PLX32-EP-PND PLX82-EP-PNC			
Siemens® Industrial Ethernet							PLX31-EP-SIE PLX32-EP-SIE			

Stand-Alone Gateways Product Selection Chart

Protocol/Application									
Application/Protocol	HART® Multi-drop	IEC 60870-5-101 Slave	IEC 60870-5-104 Server	Modbus® Serial	Modbus® TCP/IP	OPC UA	PROFIBUS DP Master	PROFIBUS DP Slave	PROFINET
Allen-Bradley® Remote I/O™					5210-MNET-RIO				
				5102-MCM-ASCII3	5201-MNET-ASCII, 5202-MNET-ASCII4			5105-ASCII-PDPS	
BACnet®/IP				PS-QS-1010-0757 (250 Point) PS-QS-1510-0757 (500 Point)	PS-QS-1010-0757 (250 Point) PS-QS-1510-0757 (500 Point)				
BACnet® MS/TP				PS-QS-1010-0757 (250 Point) PS-QS-1510-0757 (500 Point)	PS-QS-1010-0757 (250 Point) PS-QS-1510-0757 (500 Point)				
DF1 Master/Slave		5102-DFCM3-101S		5102-MCM4-DFCM4	5201-MNET-DFCM, 5202-MNET-DFCM4		5104-DFCM-PDPM	5105-DFCM-PDPS	
DNP3 Serial				5102-DNPM-MCM3 5102-DNPS-MCM3	5201-MNET-DNPM 5201-MNET-DNPS		5104-DNPS-PDPM	5105-DNPM-PDPS 5105-DNPS-PDPS	
DNP3 Ethernet	PLX51-HART-4I (4 Channels) PLX51-HART-4O (4 Channels)			5201-DNPSNET-MCM	5201-MNET-DNPSNET			5205-DNPSNET-PDPS	
EtherNet/IP™	PLX51-HART-4I PLX51-HART-4O		5201-DFNT-104S	PLX31-EIP-MBS PLX31-EIP-MBS4	PLX31-EIP-MBTC PLX32-EIP-MBTC PLX32-EIP-MBTC-UA	PLX32-EIP-MBTC-UA	PLX51-PBM 5204-DFNT-PDPM	PLX51-PBS 5205-DFNT-PDPS	PLX31-EIP-PND PLX32-EIP-PND PLX82-EIP-PNC
HART® Analog					PLX51-HART-4I, PLX51-HART-4O				
HART® Multi-drop				5107-MCM-HART	PLX51-HART-4I (4 Channels) PLX51-HART-4O (4 Channels)			5507-PDPS-HART	
IEC 60870-5-101 Slave				5102-MCM3-101S	5201-MNET-101S			5105-101S-PDPS	
IEC 60870-5-104 Server				5201-104S-MCM 5202-104S-MCM4	5201-MNET-104S				
IEC 61850					PLX82-MNET-61850				
LonWorks™				PS-QS-1011-0154 (250 Point) PS-QS-1511-0154 (500 Point)	PS-QS-1011-0154 (250 Point) PS-QS-1511-0154 (500 Point)				
Metasys® N2				PS-QS-1010-0117 (250 Point) PS-QS-1510-0117 (500 Point)	PS-QS-1010-0117 (250 Point) PS-QS-1510-0117 (500 Point)				
Modbus® Serial	5127-MCM-HART (8 Channels)	5102-MCM3-101S	5201-104S-MCM 5202-104S-MCM4	5102-MBS3-MBM 5102-MCM4-DFCM4 PLX51-DL-232			PLX51-PBM 5104-MCM-PDPMV1	PLX51-PBS 5105-MCM-PDPS	PLX31-PND-MBS PLX31-PND-MBS4
Modbus® TCP/IP	PLX51-HART-4I (4 Channels) PLX51-HART-4O (4 Channels)	5201-MNET-101S	5201-MNET-104S		PLX51-DL-232	PLX32-EIP-MBTC-UA	PLX51-PBM 5204-MNET-PDPM	PLX51-PBS 5205-MNET-PDPS	PLX31-MBTC-PND PLX32-MBTC-PND PLX82-MBTC-PNC
OPC UA					PLX32-EIP-MBTC-UA				
PROFIBUS DP		5105-101S-PDPS	5205-104S-PDPS	5105-MCM-PDPS	5204-MNET-PDPMV1, 5205-MNET-PDPS				
PROFINET				PLX31-PND-MBS PLX31-PND-MBS4	PLX31-MBTC-PND PLX32-MBTC-PND PLX82-MBTC-PNC				
Siemens® Industrial Ethernet					PLX31-MBTC-SE, PLX32-MBTC-SIE				

Asia Pacific

Regional Office

Phone: +603.2242.2020

asiapc@prosoft-technology.com

Languages: Bahasa, Chinese, English, Japanese, Korean

Regional Tech Support

support.ap@prosoft-technology.com

North Asia (China, Hong Kong)

Phone: +86.21.5187.7337

china@prosoft-technology.com

Languages: Chinese, English

Southwest Asia

(India, Pakistan, Sri Lanka, Bangladesh, Mongolia)

Phone: +91.99.1008.6221

india@prosoft-technology.com

Languages: English, Hindi

Australasia

(Australia, N. Zealand)

Phone: +61.491.095.248

pacific@prosoft-technology.com

Language: English

Southeast Asia

(Singapore, Indonesia, Philippines, Thailand, Vietnam, Malaysia, Myanmar, Cambodia, Laos, Vietnam)

Phone: +60.12.275.3307

seasia@prosoft-technology.com

Languages: English, Bahasa, Malay

Northeast & Southeast Asia

(Japan, Taiwan)

Phone: +60.12.275.3307

neasia@prosoft-technology.com

Languages: English, Chinese, Japanese

Korea

Phone: +82.10.7187.2064

korea@prosoft-technology.com

Languages: English, Korean

Europe / M. East / Africa

Regional Office

Phone: +33.(0)5.34.36.87.20

europe@prosoft-technology.com

Languages: French, English

Regional Tech Support

support.emea@prosoft-technology.com

Middle East, Turkey,

Sub-Saharan Africa

Phone: +971.4.214.6911

mea@prosoft-technology.com

Languages: Hindi, English

North Western Europe

(UK, IE, IS, DK, NO, SE)

Phone: +44.(0)7415.864.902

nweurope@prosoft-technology.com

Language: English

Austria, Germany, Switzerland

Phone: +32.474.36.84.51

germany@prosoft-technology.com

Languages: French, English, Dutch

France, Benelux, Portugal, Algeria, Morocco, Tunisia

Phone: +32.474.36.84.51

france@prosoft-technology.com

Languages: French, English, Dutch

Italy, Greece, Israel,

Eastern Europe

Phone: +39.342.8651.595

italy@prosoft-technology.com

Languages: Italian, English

Latin America

Regional Office

Phone: +52.222.264.1814

latinam@prosoft-technology.com

Languages: Spanish, English

Regional Tech Support

support.la@prosoft-technology.com

Argentina, Bolivia, Brazil, Paraguay, Uruguay

Phone: +55.11.5084.5178

brasil@prosoft-technology.com

Languages: Portuguese, English

Mexico, Andean, Caribbean, & Central America

(VE, CO, PE, EC)

Phone: +507-6427-48-38

mexico@prosoft-technology.com

Languages: Spanish, English

North America

Regional Office

Phone: +1.661.716.5100

info@prosoft-technology.com

Languages: English, Spanish

Regional Tech Support

support@prosoft-technology.com



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ProSoft provides a variety of resources and services for wireless applications from initial system design to site surveys to launch support and configuration support.

Tech Support: support@prosoft-technology.com

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