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# Industrial Wireless Interfaces Stand-Alone Gateways

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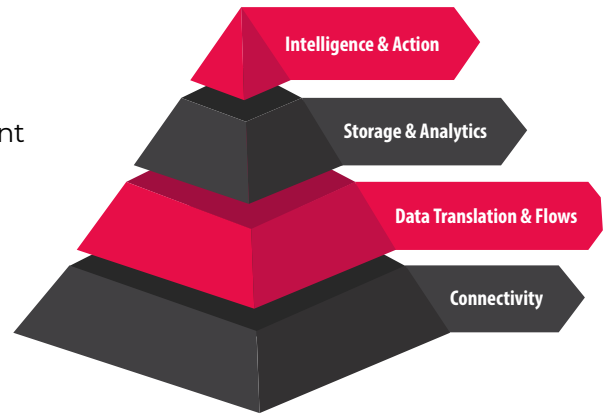




## Leverage the IIoT

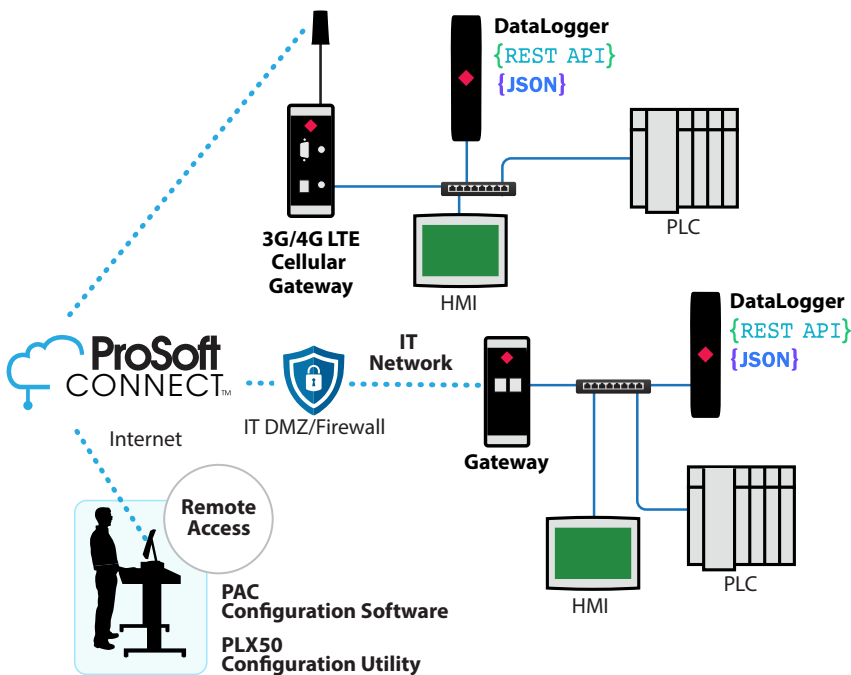
Collect, store, and analyze data to realize measurable business improvements.

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.



### ProSoft Connect Platform

- ProSoft Connect is 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



### ProSoft Connect Lite App

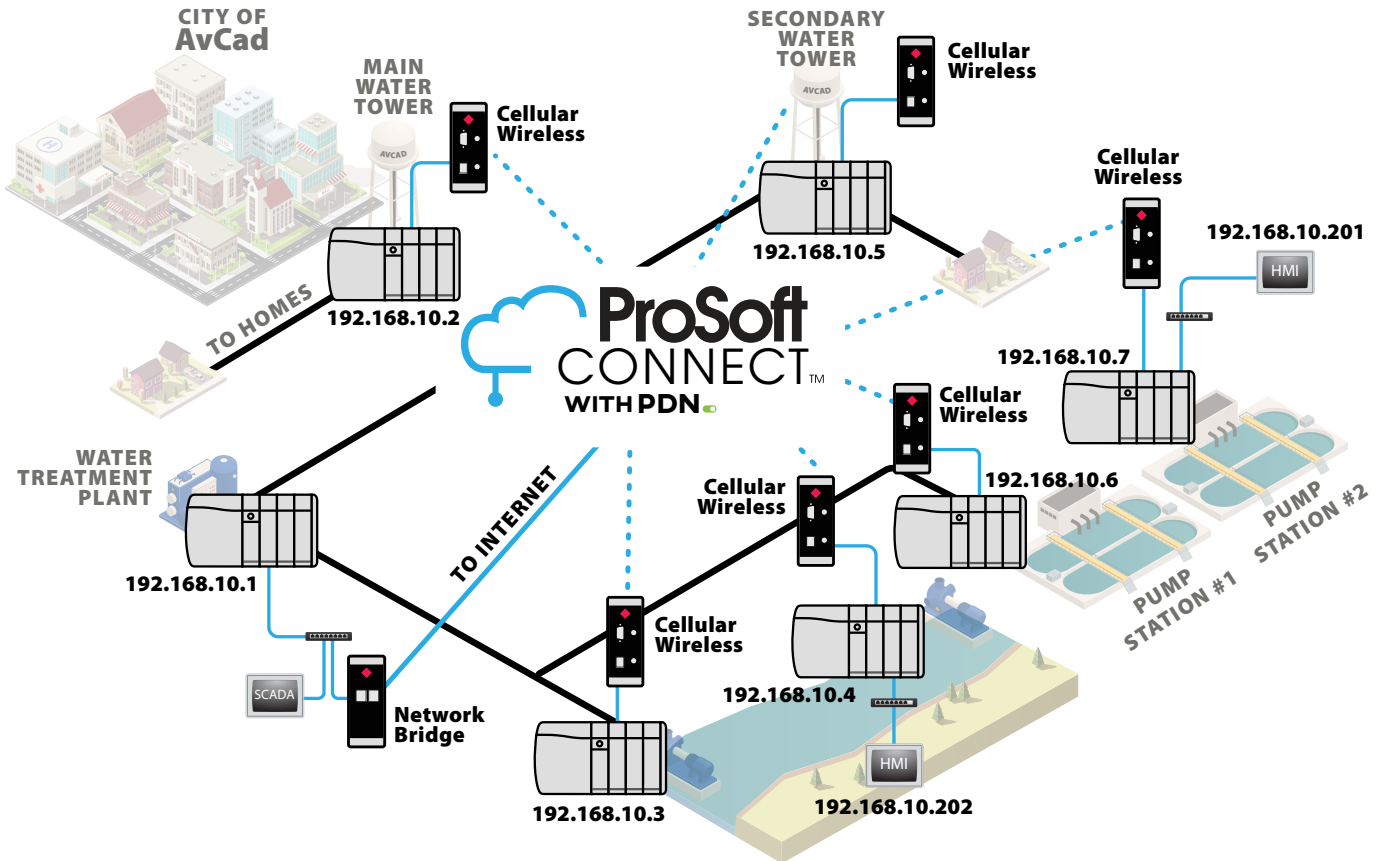
What if you're not at your desk or office when the customer call comes in, or sitting on a beach and your customer calls in with a critical issue? You don't have to give up that view or worry you'll upset your customer – ProSoft Connect has gone mobile and the app is available to download on the iOS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



The best IIoT steps for your operation  
[psft.com/DB5](http://psft.com/DB5)

## Persistent Data Network

- Simple, Secure, Managed always-on remote infrastructure communications network
- Access via ProSoft Connect 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 ProSoft Connect

### Network Bridge (PLX35-NB2)

- Wired remote access
- Monitor and manage via ProSoft Connect

### Data Logger Plus (PLX51-DLPLUS-232)

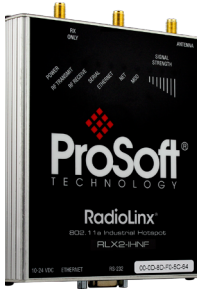
- Features support for REST API enabling easy exporting of
- Features an integrated webserver to trend variables and upload logged data
- Ideal for remote sites with limited communications that need to log data
- Can help OEMs identify operational issues and improve OEE
- Data can be manually downloaded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

**Case Study:** Being able to securely troubleshoot through a Web platform provided flexibility.

[psft.com/DCE](http://psft.com/DCE)

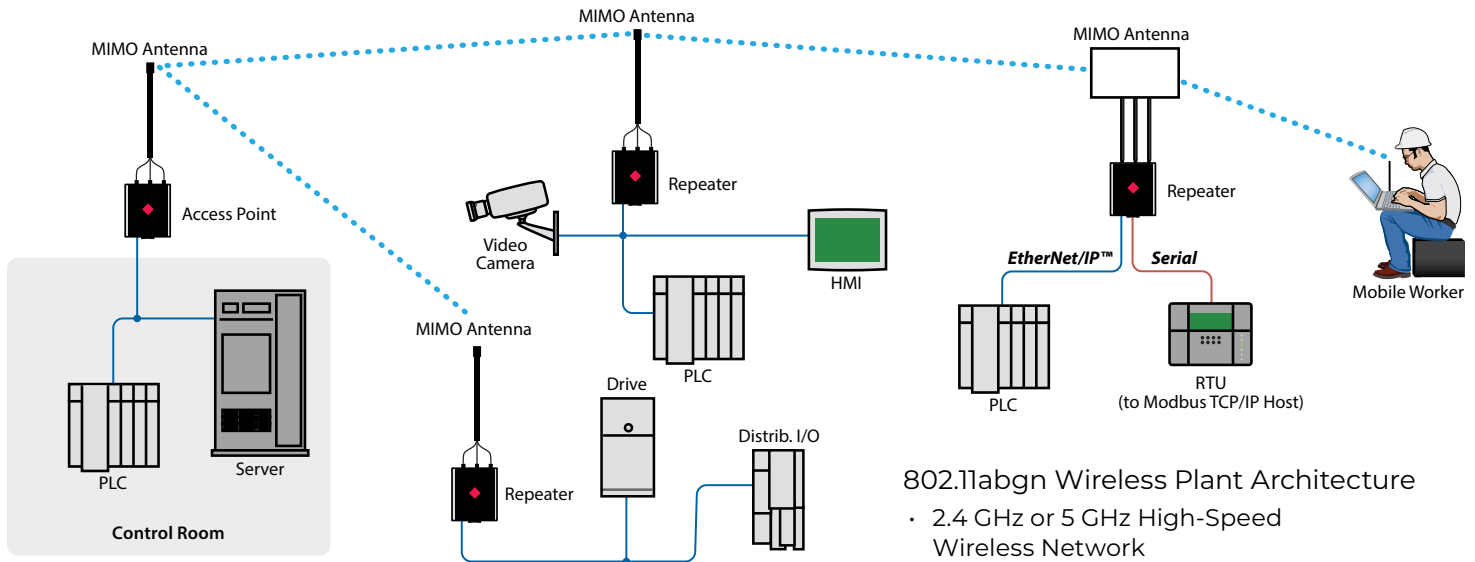
**Learn More about Secure Remote Connectivity**  
[psft.com/DB7](http://psft.com/DB7)

## 802.11n (abgn) Fast Industrial Hotspots

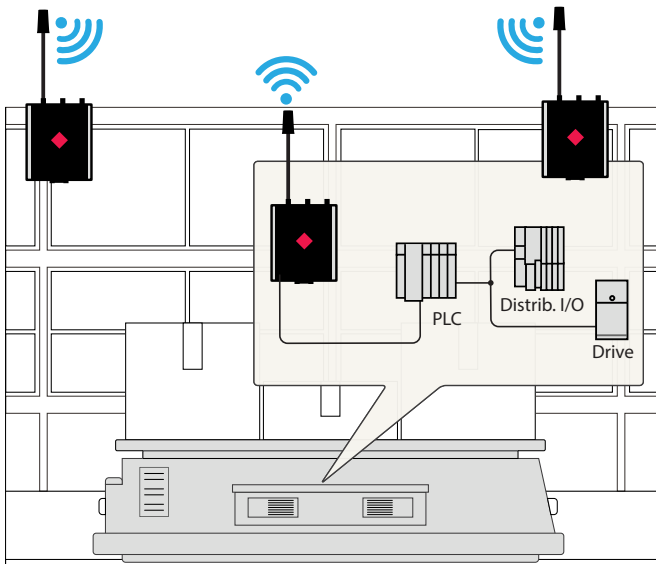


- Ultra-Fast access point switchover times of less than 10 ms are perfect for applications such as automated storage-retrieval systems, AGVs, and automotive skilnet lines
- EtherNet/IP™ embedded object and Modbus® agent support lets users get radio diagnostics into their PAC/PLC, where the information 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.



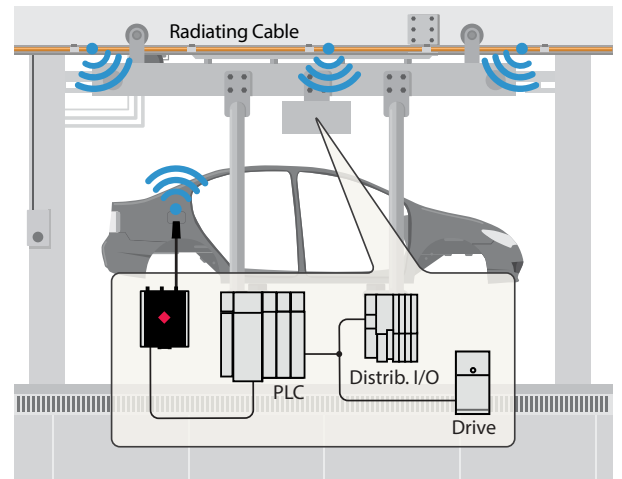
### Features

- 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

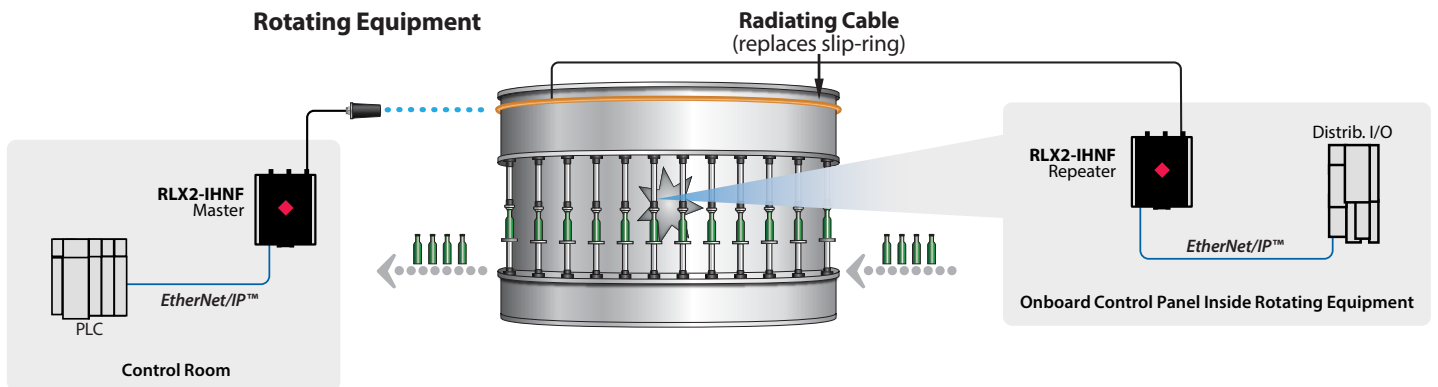
### Benefits

- 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)

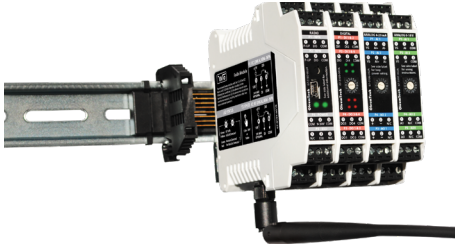


How to benefit from radiating cable  
[psft.com/CXL](http://psft.com/CXL)

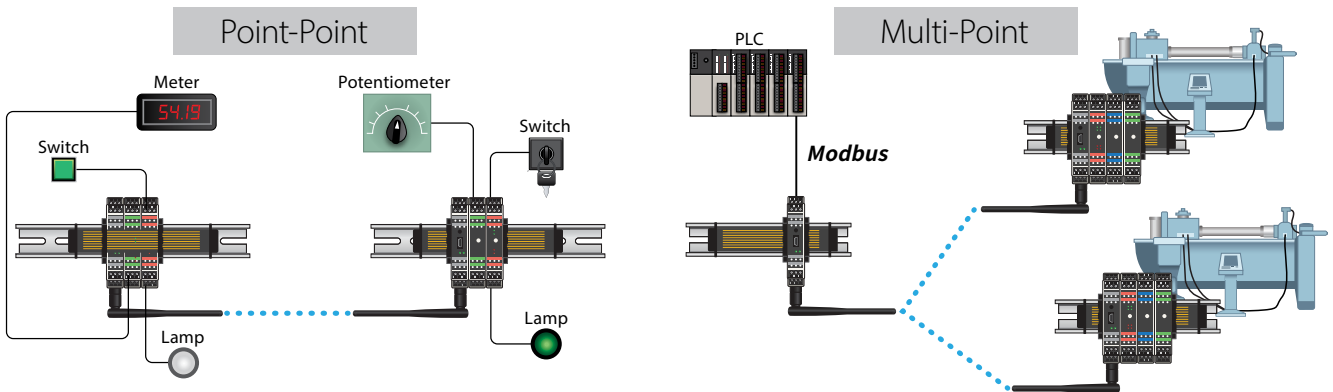
## Wireless I/O

### What would you monitor if you didn't have to worry about the cost of running wire?

Whether you have a point-to-point application or many distributed I/O devices, our Wireless I/O solutions are a great alternative to running long wire runs. Eliminate trenching, running conduit, and the need for permits. The system can be expanded as your I/O needs grow.



- Bi-directional
- 868 MHz, 900 MHz or 2.4 GHz
- Each radio can connect up to 16 I/O modules
- Available as Analog I/O 0-10 V, Analog I/O 4-20 mA & Digital/Discrete I/O
- Point-to-point system is pre-configured in the factory for electrical engineers



## 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.

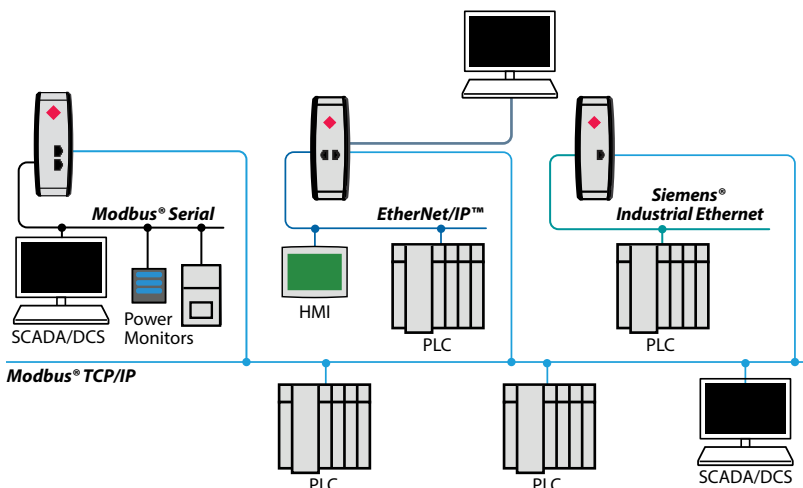
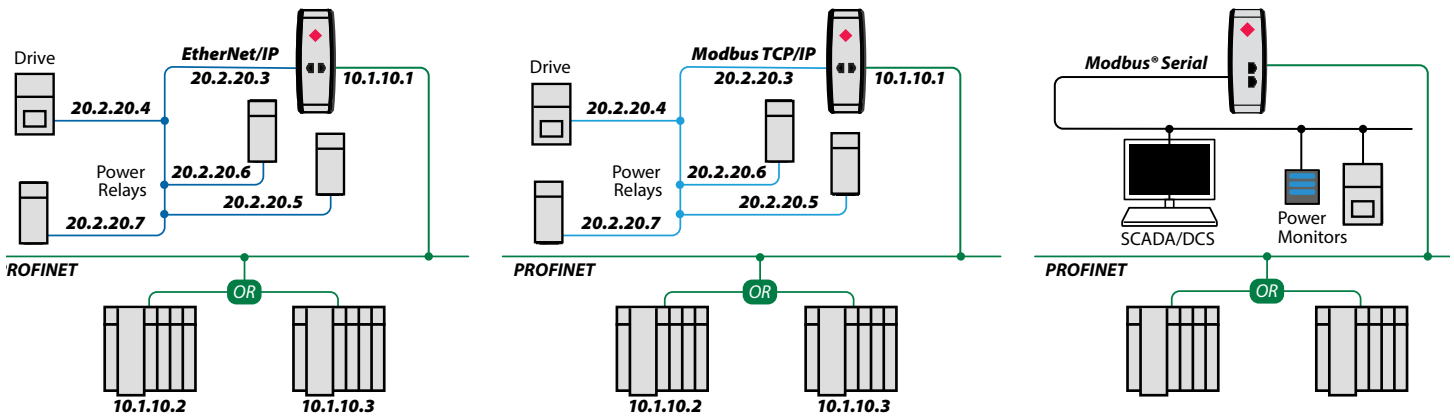
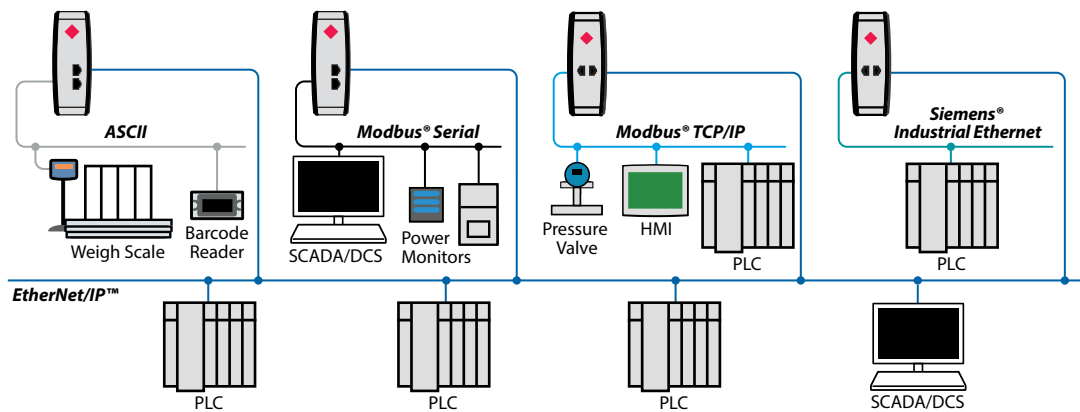
- **No separate troubleshooting equipment:** The built-in PROFIBUS DP packet capture utility allows the modules to monitor network communications and view PROFIBUS DP raw packets for troubleshooting.
- **Device Level Ring networks and dual subnet support:** Adapt the modules based on your application – 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

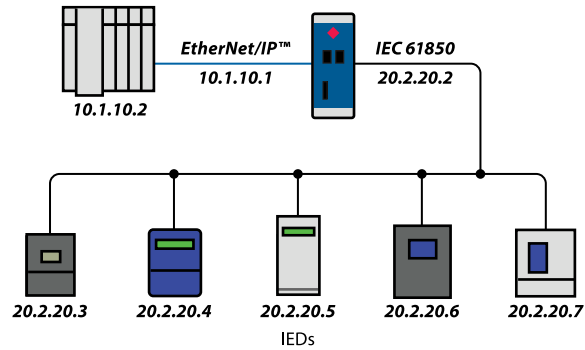
- Supports 10 Clients and 10 Server connections
- Multiple clients and servers allow HMIs, SCADA systems, PLCs, and other clients to send and receive data

**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

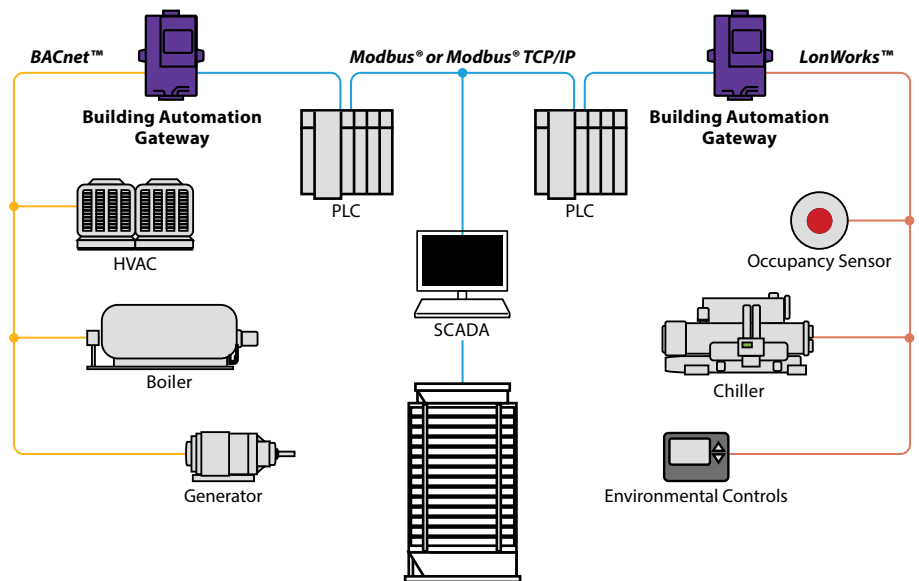
## Building Automation Gateways

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	802.11 abgn Weatherproof Industrial Hotspot	802.11 abgn Fast Industrial Hotspot	802.11g High-Power Industrial Hotspot	802.11a High-Power Industrial Hotspot	Industrial Cellular Gateway	Point-to-Point Wireless I/O	Multi-Point Wireless I/O
	RLX2-IHNF-W(C)	RLX2-IHNF	RLX2-IHG	RLX2-IHA	ICX35-HWC	BM-XXX0-RM1K	BM-XXX-GM1K
<b>Features &amp; Specifications</b>							
<b>Device Connectivity</b>	Ethernet	Ethernet/Serial	Ethernet/Serial	Ethernet/Serial	Ethernet/Serial		Modbus® Serial
<b>Frequency Band(s)</b>	2.4 & 5 GHz	2.4 & 5 GHz	2.4 GHz	5 GHz	Cellular	Several frequencies available	Several frequencies available
<b>Regions Unlicensed Use Allowed. Check for product availability in your country.</b>	Global	Global	North America, Latin America, Australia, New Zealand, Middle East	North America, Latin America, Australia, New Zealand, Middle East	Global	North America, Europe, Australia, Middle East	North America, Europe, Australia, Middle East
<b>Wireless Technology</b>	IEEE 802.11abgn	IEEE 802.11abgn	IEEE 802.11g	IEEE 802.11a	4G LTE Cellular HSPA	Frequency Hopping	Frequency Hopping
<b>Max Outdoor Range (miles/km)</b>	5 mi / 8 km	5 mi / 8 km	20 mi / 30 km	5 mi / 8 km	Unlimited	1-4 mi / 1.6-6.4 km	5-30 mi / 8-48 km
<b>Fast Roaming</b>	Yes	Yes	Yes	Yes	N/A	N/A	N/A
<b>Repeater Mode</b>	Yes	Yes	Yes	Yes	N/A	N/A	N/A
<b>Max RF Data Rate</b>	300 Mbps	300 Mbps	54 Mbps	54 Mbps	N/A	N/A	N/A
<b>Security/Encryption</b>	802.11i / 128 bit AES	802.11i / 128 bit AES	802.11i / 128 bit AES	802.11i / 128 bit AES	Internal Firewall, ProSoft Connect VPN, OpenVPN, IPsec	Proprietary FHSS / 128 bit AES	Proprietary FHSS / 128-bit AES
<b>RF Based IGMP Querying</b>	Yes	Yes	Yes	Yes	N/A	N/A	N/A
<b>Self-Healing Network</b>	Yes	Yes	Yes	Yes	N/A	N/A	N/A
<b>Advanced Diagnostics (signal strength LEDs, web server, network management software, OPC tag server, SNMP)</b>	Yes	Yes	Yes	Yes	N/A	N/A	N/A
<b>Hazardous Location Approvals</b>	Class 1, Div 2 / Atex Zone 2 (WC)	Class 1, Div 2 / Atex Zone 2	Class 1, Div 2 / Atex Zone 2	Class 1, Div 2 / Atex Zone 2	Class 1, Div 2	Class 1, Div 2 / Atex Zone 2	Class 1, Div 2 / Atex Zone 2 / CID2
<b>Outdoor/Wash Down Rated Model</b>	IP67	N/A	N/A	N/A	N/A	N/A	N/A
<b>Wireless Applications</b>							
<b>Long-Range SCADA</b>	N/A	N/A	Yes	Yes	Yes	N/A	N/A
<b>Short-Range SCADA</b>	Yes	Yes	Yes	Yes	Yes	N/A	N/A
<b>Mobile Worker (Wi-Fi)</b>	Yes	Yes	Yes	Yes	N/A	N/A	N/A
<b>EtherNet/IP™ Object</b>	Yes	Yes	Yes	Yes	Yes	N/A	N/A
<b>EtherNet/IP™ Implicit Messaging (High-Speed IO)</b>	Yes	Yes	Yes	Yes	N/A	N/A	N/A
<b>Serial DF1, ASCII, Modbus®, DNP3, etc.</b>	N/A	Yes (encapsulation)	Yes (encapsulation)	Yes (encapsulation)	Yes (encapsulation)	N/A	N/A
<b>Video</b>	Fast Frame Rate	Fast Frame Rate	Yes	Yes	Yes	N/A	N/A
<b>Check for product availability in your country.</b>							

		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-DFCOM-ASCII3				PLX31-EP-ASCII PLX31-EP-ASCII4				
BACnet®/IP			PS-Q5-1010-0781 (250 Point) PS-Q5-1510-0781 (500 Point)				PS-Q5-1010-0780 (250 Point) PS-Q5-1510-0780 (500 Point)				
BACnet® MS/TP			PS-Q5-1010-0781 (250 Point) PS-Q5-1510-0781 (500 Point)				PS-Q5-1010-0780 (250 Point) PS-Q5-1510-0780 (500 Point)				
DF1 Master/Slave			5102-DFCS3-DFM 5102-MCM4-DFCM4 PLX51-DL-232	5102-DNPM-DFCM3 5102-DNPS-DFCM3			PLX51-DFI-ENI PLX51-DFI-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-40 (4 Channels)	
EtherNet/IP™	5210-DFNT-RIO	PLX31-EP-ASCII PLX31-EP-ASCII4		5201-DFNT-DFCM 5202-DFNT-DFCM4 PLX51-DFI-ENI PLX51-DFI-MSG	5201-DFNT-DNPM 5201-DFNT-DNPS	5201-DFNT-DNPSNET	PLX51-DL-232 PLX35-MB2	PLX51-DL-232 PLX51-DLPlus-232	PLX51-DLPlus-232	PLX51-HART-4I (4 Channels) PLX51-HART-40 (4 Channels)	
HART® Analog						PLX51-HART-4I PLX51-HART-40	PLX51-HART-4I				
HART® Multi-drop						PLX51-HART-4I PLX51-HART-40	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-Q5-1011-0783 (250 Point) PS-Q5-1511-0783 (500 Point)			PS-Q5-1011-0783 (250 Point) PS-Q5-1511-0783 (500 Point)			5107-MCM-HART	
Metasys® N2				PS-Q5-1010-0782 (250 Point) PS-Q5-1510-0782 (500 Point)			PS-Q5-1010-0782 (250 Point) PS-Q5-1510-0782 (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-DLPlus-232 PLX51-DLPlus-232	PLX51-DLPlus-232	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-MBTCP PLX32-EP-MBTCP PLX32-EP-MBTCP-UA	PLX51-DL-232 PLX51-DLPlus-232	PLX51-DLPlus-232	5507-PDPS-HART	
OPC UA							PLX32-EP-MBTCP-UA				
PROFIBUS DP		5105-ASCII-PDPS	5104-DFCM PDPM 5105-DFCM-PDPS		5105-DNPS-PDPS	5205-DNPSNET-PDPS	5204-DFNT-PDRM1 5205-DFNT-PDPS				
PROFINET							PLX31-EP-PND PLX32-EP-PND PLX82-EP-PNC				
Siemens® Industrial Ethernet							PLX31-EP-SIE PLX32-EP-SIE				

		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				
ASCII				5102-MCM-ASCII3	5201-MNET-ASCII, 5202-MNET-ASCII4			5105-ASCII-PDPS	
BACnet®/IP				PS-Q5-1010-0757 (250 Point) PS-Q5-1510-0757 (500 Point)	PS-Q5-1010-0757 (250 Point) PS-Q5-1510-0757 (500 Point)				
BACnet® MS/TP				PS-Q5-1010-0757 (250 Point) PS-Q5-1510-0757 (500 Point)	PS-Q5-1010-0757 (250 Point) PS-Q5-1510-0757 (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-Q5-1011-0154 (250 Point) PS-Q5-1511-0154 (500 Point)	PS-Q5-1011-0154 (250 Point) PS-Q5-1511-0154 (500 Point)				
Metasys® IN2				PS-Q5-1010-0117 (250 Point) PS-Q5-1510-0117 (500 Point)	PS-Q5-1010-0117 (250 Point) PS-Q5-1510-0117 (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									
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-SIE, PLX32-MBTC-SIE				

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## Andean Countries, Central America + Caribbean

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**Regional Tech Support**  
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## ► Tech Support

ProSoft Technology's technical support is unparalleled in the industrial automation industry. To continue our world-class technical support, we have opened offices in most time zones in an effort to support our customers at a local level. See Regional Tech Support contact information above.

