

WHERE AUTOMATION CONNECTS



## Communication Solutions for **Rockwell Automation®** Users



  
**ProSoft®**  
TECHNOLOGY

**Routeco**  
A Sonepar Company

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# Power and Energy Solutions

Connecting your Rockwell Automation controller to intelligent electronic devices (IEDs), including substation power monitors and relays.

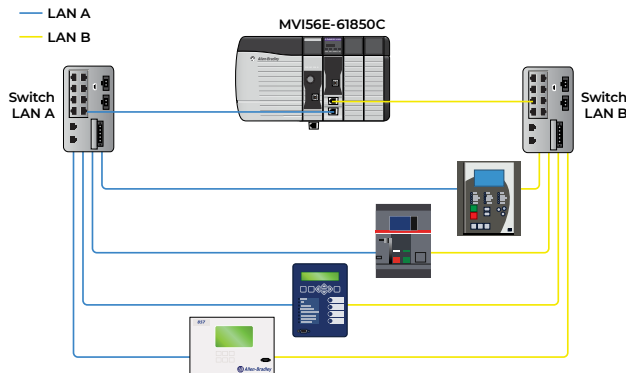
Those devices' data can then be used for IED integration and substation automation, as well as be sent to the utility enterprise level. ProSoft has a variety of modules that can help you extend your power and energy application's Connected Enterprise.

## IEC 61850 Solutions



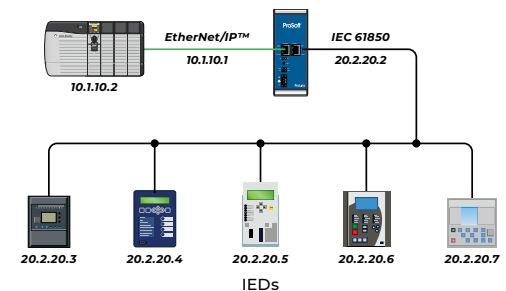
### IEC 61850 Client Module

- Allows ControlLogix® PACs to interface with IEC 61850 IEDs, including power protection equipment; features support for up to 40 IEC 61850 Server devices on the network
- Supports up to 225 I/O connections to ControlLogix PAC
- Supports MMS and GOOSE messaging, helping you eliminate hard-wired I/O signals for interlocking of protection relays and load shedding applications
- Streamlined configuration: Highly integrated into Studio 5000 with Add-On Profile; custom Add-On Instruction available
- An IEC 61850 Server Module is also available for ControlLogix PACs



### IEC 61850 Gateway

- Fast, real-time data transfers with a maximum of 10,000 bytes in and 9,920 out (PLX82)
- Polls up to 20 IEC 61850 server devices
- Application-specific Add-On Instructions are automatically generated
- IEC 61850 IED tags are created in your Studio 5000®/RSLogix 5000™ Project, reducing configuration time and errors



Other protocol solutions are available, including modules supporting IEC-60870-5-104, Modbus, PROFIBUS, and PROFINET.

## DNP3 Solutions

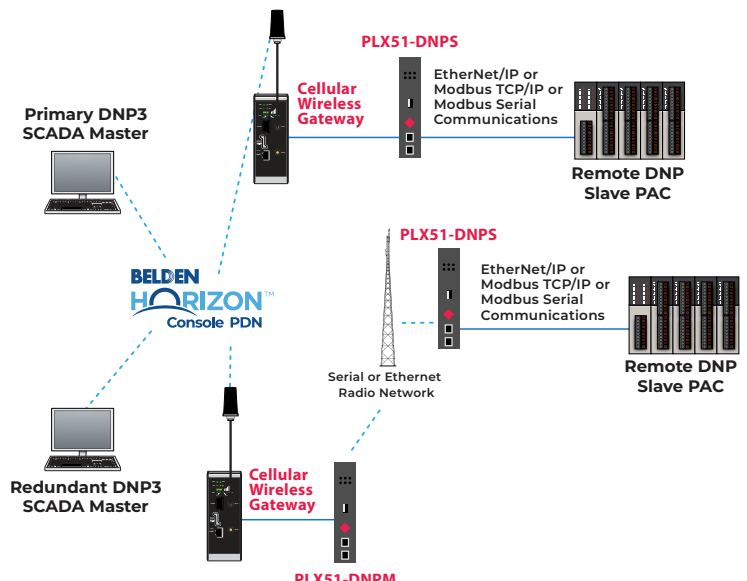
Connect power and energy, oil and gas, or water and wastewater sites with industrial DNP3 solutions.



### DNP3 Master and Slave Gateways

The PLX51-DNPM and -DNPS gateways enable intelligent routing between DNP3 and EtherNet/IP or Modbus protocols. Adding these modules into your SCADA and telemetry system will help you reliably capture key data with no holes, with time- and date-stamped data at the source.

- Supports secure authentication
- Optimized for Rockwell Automation architectures
- Flexible and easy to configure



# Modernization Solutions

Lower-risk, phased updates of legacy equipment can be completed on your timeline – without using up CapEx. Avoid extended downtime with this gradual approach.

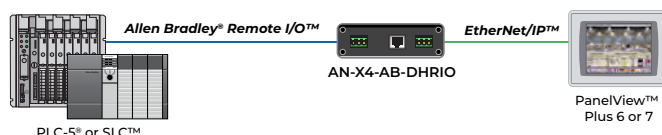
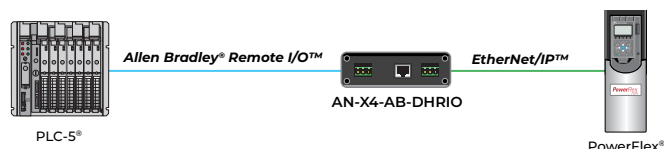
## Legacy Rockwell Automation Remote I/O and DH+™ Modernization Solutions

Modernize your legacy control system in phases with OpEx dollars



### AN-X4-AB-DHRIO EtherNet/IP to Remote I/O or DH+ Gateway

- Replace old Remote I/O drives with new drives on EtherNet/IP without modifying PLC code
- Replace PanelView™ units on Remote I/O to new PanelView Plus 6 models on EtherNet/IP without modifying PLC code
- Enables your Remote I/O PLC-5® or SLC™ to communicate with EtherNet/IP FLEX™ I/O adapters, giving you a phased migration option when your 1794-ASB spares are gone

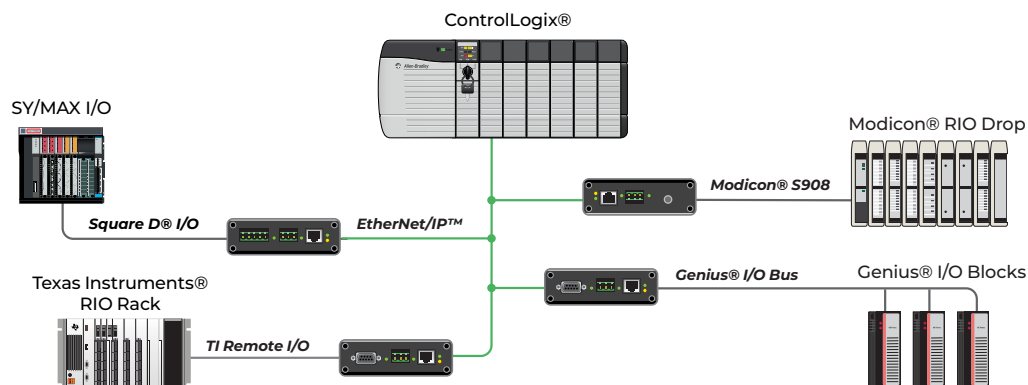


## Legacy Competitive PLC Migration Solutions



### AN-X3 Family of Gateways

- Enables Allen-Bradley PAC via EtherNet/IP to control I/O devices on legacy networks
- Enables a phase-based approach for migrating legacy control systems
- Monitor mode enables testing & verification of PAC logic before controlling I/O
- Currently available for AutoMax, Modicon, and GE Genius migrations



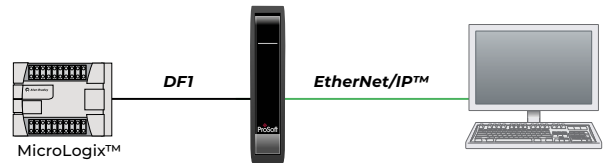
DCS migration solutions  
psft.com/DB3

## 1761-NET-ENI Replacement – Update Your Legacy DF1 Systems

Need a 1761-NET-ENI now that it's been discontinued? The Routing Module can be used in nearly every application as the NET-ENI. Now you can modernize your legacy DF1 control system in phases using your OpEx budget.



- Intelligent routing to ControlLogix® or CompactLogix™ from PLC-5, SLC, MicroLogix™ controllers
- Direct-to-tag technology simplifies data mapping, reducing configuration time

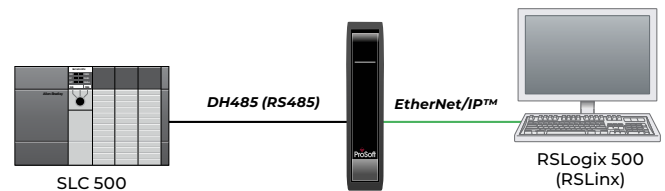


## 1761-NET-AIC Replacement – Update your legacy DH485 systems

Need a 1761-NET-AIC replacement? This module can be used in nearly every application as the NET-AIC. Now you can modernize your legacy DH485-based system in phases using your OpEx budget.



- Intelligent data routing between DH485 and EtherNet/IP devices
- Direct-to-tag technology simplifies data mapping, reducing configuration time
- 2-port unmanaged switch or Device Level Ring (DLR) support



## ControlNet and DeviceNet Modernizations



**ControlNet Router:** Connect existing equipment to new EtherNet/IP -using PanelView Plus terminals – without having to do some major re-cabling. The module also supports Device Level Ring networks or can be used as a two-port Ethernet switch.



**DeviceNet Router:** Allows you to exchange data between DeviceNet and EtherNet/IP networks. The router can be configured as a DeviceNet Scanner or a DeviceNet Device, which allows the device be integrated into a new Logix system while also allowing the EtherNet/IP device to be added to the DeviceNet network. The router also features two Ethernet ports to support Device Level Ring (DLR) applications.

## Real-World Modernizations

**American Castings estimates they saved over \$100,000 in lost production and implementation time, as well as 140 hours of troubleshooting and rewiring work.**  
[psft.com/DD5](https://psft.com/DD5)

**Brains Brewery needed to upgrade its PLC-2® controllers - but only 3 days of downtime was available. The systems were updated, beer availability didn't skip a beat, and the process cost 40% less than an alternative modernization approach.**  
[psft.com/DD6](https://psft.com/DD6)

# PROFINET Solutions

The Only In-Rack PROFINET Module for ControlLogix®



ProSoft's first-of-its-kind in-chassis modules for Rockwell Automation® ControlLogix® PACs provide reliable connectivity for these two industrial powerhouses. The new ILX56-PNC PROFINET Controller Module and ILX56-PND PROFINET Device Module allow your ControlLogix controller to communicate on a PROFINET RT network. The Controller Module can communicate with up to 64 PROFINET Devices and pass up to 4096 bytes of input and output data as high-speed cyclic I/O data on your PROFINET network. The Device Module can transfer up to 1440 bytes of Input/Output data to a PROFINET RT network with ControlLogix RPI times as low as 2 mSec, meeting the needs of some of the most demanding PROFINET RT applications.

As with most ProSoft in-chassis modules, the units allow for streamlined integration into your application. With the PLX50 Configuration Utility, you have access to advanced features such as custom-built Add-On Routines to minimize the amount of time and effort in getting your ControlLogix operating on your PROFINET RT network.



## PROFINET Gateways

- PROFINET Controller and Device Gateways connect to EtherNet/IP-based systems.
- 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

# PROFIBUS Solutions

ProSoft's PROFIBUS DP modules are ideal for the most demanding applications.



## For ControlLogix®

Through premier integration tools, you can minimize the time required to get a PROFIBUS DP network configured in a ControlLogix environment.

**Master/multi-slave module:** Can transfer up to 5000 bytes of cyclic I/O data with various slave devices on the network.

**Multi-slave module:** Can pass up to 2440 bytes of input and output data as high-speed cyclic I/O data on a PROFIBUS DP network.



## For CompactLogix™

**Master module:** Supports remote Ethernet connectivity with Asset Management Software, significantly lowering your maintenance costs.

**Slave module:** Supports DPV1 Acyclic Messaging; Add-On Profile provided to allow for seamless integration to Studio 5000 and RSLogix 5000.



## PROFIBUS Gateways

Master and Slave gateways connect PROFIBUS DP equipment to devices using EtherNet/IP, Modbus Serial, or Modbus TCP/IP. PROFIBUS DP network commissioning time can be greatly reduced with the modules' built-in PROFIBUS DP packet capture utility. With support for up to 1536 bytes of Input and Output data, and up to 4 EtherNet/IP connections back to the processor, the modules provide performance and data throughput for even the most demanding of PROFIBUS applications.

# Automated Material Handling

Reliability is key for any Automated Material Handling application.

Industrial gateways and wireless radios enable communications between equipment in busy facilities, helping you maintain production and meet increased consumer demand.



## Logistics

Increased consumer demand for goods bought online has heightened the need for reliable, on-time delivery of many household goods. Industrial protocol gateways and wireless radios can help ensure accurate production and distribution; real-time communications between moving equipment such as smart conveyors and automated guided vehicles (AGVs); and the safety of on-site employees in increasingly mobile applications.

### Real-World Examples

A **logistics end user** needed to find a reliable alternative to slip rings for a conveyor application. Wireless radios now communicate with their CompactLogix.

[psft.com/DEA](https://psft.com/DEA)

A **perfume manufacturer** produces its samples thanks to improved communication with their scale.

[psft.com/DEB](https://psft.com/DEB)



## Automotive

**Automotive production is an intricate process whose automated elements rely on real-time communications.**

Moving parts throughout a facility – whether they're half-finished vehicle frames moving down a production line or AGVs ferrying supplies – require reliable communications to protect workers and product throughout the site. Ultra-Fast Industrial Hotspots can help.

### Real-World Examples

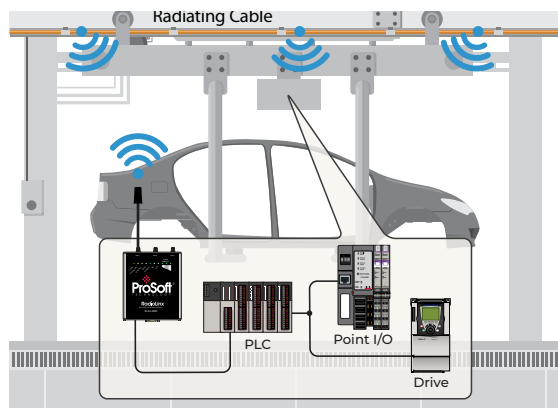
Fiat Chrysler increased production flexibility – and saved downtime – when they paired wireless radios with new Rockwell Automation controllers.

[psft.com/DD4](https://psft.com/DD4)

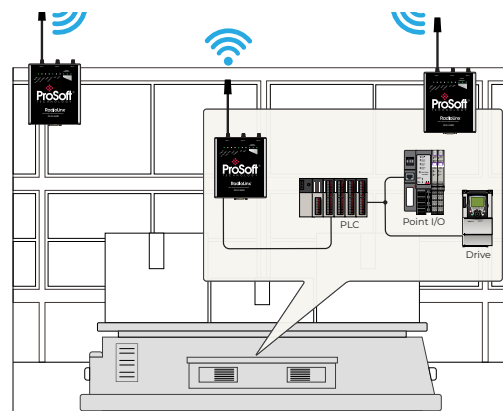
A UK end user needed to transport materials within its automotive facility. The machine builder Mirage paired AGVs with wireless radios

[psft.com/DD9](https://psft.com/DD9)

### Automotive Skillet Line Communication



### AGV Communication



## Amusement

**At the top of any amusement end user or machine builder's mind is the need to maintain riders' safety.**

Using wireless communications over CIP Safety helps increase communications for thrilling rides – as well as the safety of everyone on-board.

### Real-World Examples

- Safety on the Skyfall: The company Funtime added radiating cable and a wireless radio to best monitor this freefall ride's signals.

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

- Improvements to the Disk'O Coaster: Using a wireless Ethernet-based solution paired with a safety protocol helped this ride manufacturer improve the data rate of communication.

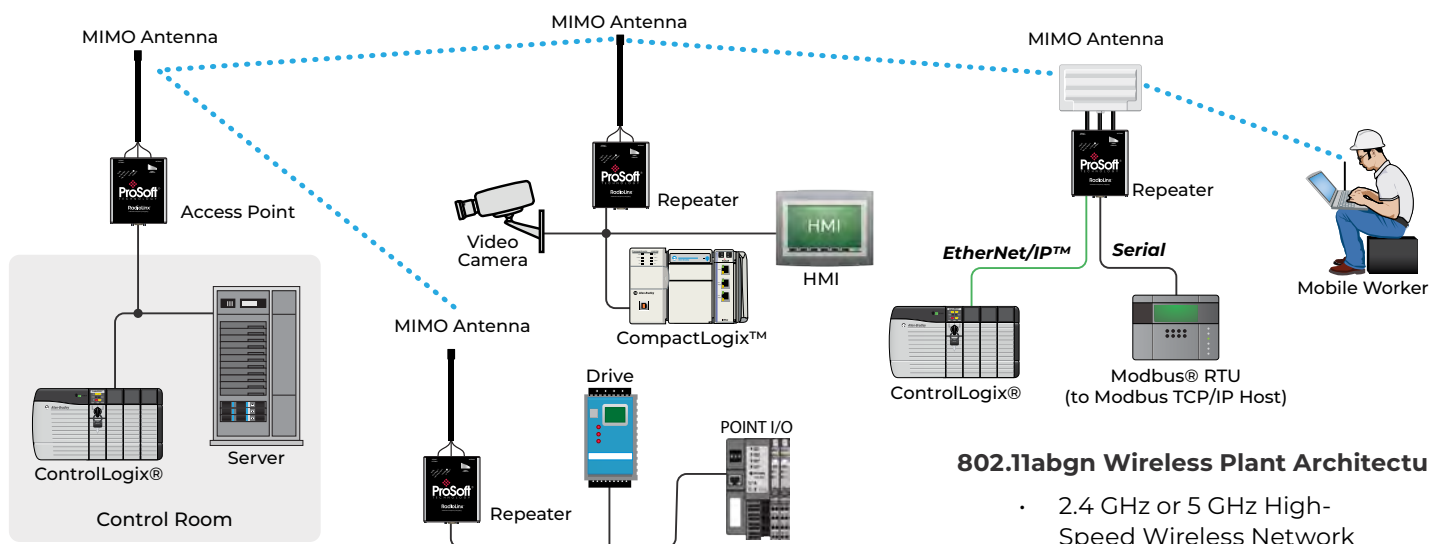
[psft.com/DED](http://psft.com/DED)

## 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
- WPA/WPA2-Personal (PSK, AES and/or TKIP); WPA/WPA2-Enterprise (IEEE 802.1X/RADIUS, AES and/or TKIP)
- Secure digital configuration storage for quick field replacement
- Radios support wireless safety Ethernet networks, ideal for automated material handling applications



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







## Reliably Connect Your Material Handling Application with the ProLinux Edge Mini

The ProLinux Edge Mini features hitless roaming of less than 100 milliseconds, enabling large-scale wireless applications featuring mobile equipment, including those in logistics and material handling.

The radio's Wi-Fi 6 technology ensures reliable connectivity for massive applications. The radio is:

- Able to maintain high throughput due to reliable connectivity even in crowded facilities
- Optimized for efficient single and multi-channel Wi-Fi of more than 300 devices per facility

ProLinux Edge Mini wireless networks are also easily expandable by design – so as your application grows, adding new radios will be a streamlined process.

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## Wireless Support from Trusted Experts

Designing and implementing a wireless network is a major investment. ProSoft's wireless field application engineers can help ensure a smooth design and installation for your application. Our professional wireless services include:

- Expert Phone Support
- Engineering Drawing Review
- Site Surveys
- Configuration Support
- Troubleshooting



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Contact us at [psft.com/DD8](https://psft.com/DD8) to learn more.



## Radiating Cable 2.4 and 5 GHz Band

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



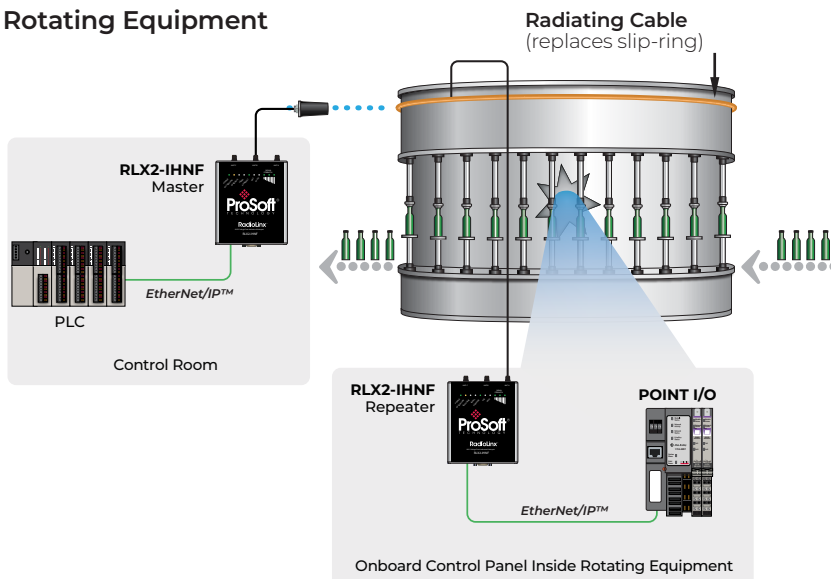
### Features

- 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, AGVs, warehousing, and more

### Rotating Equipment



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

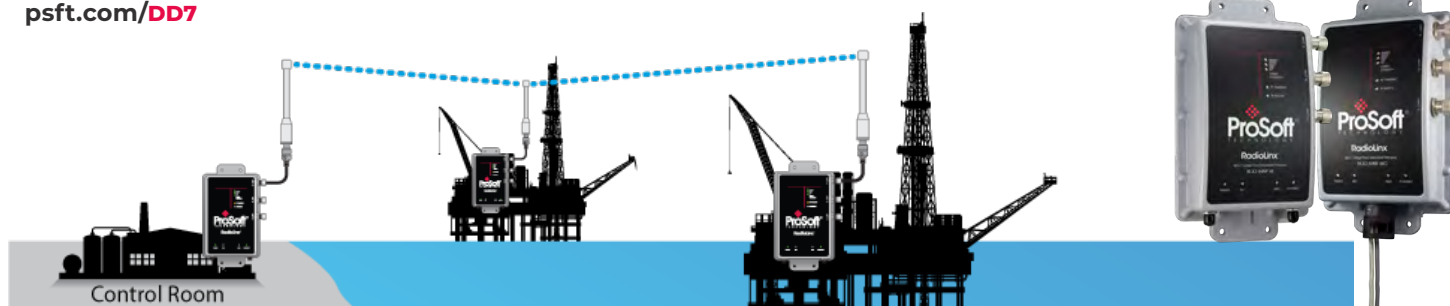
## 802.11n (abgn) Fast Watertight Industrial Hotspots

- 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)

### Wireless Application Guide:

In this comprehensive resource, find out the key considerations for adding wireless communications over CIP Safety.

[psft.com/DD7](http://psft.com/DD7)



## Wireless Comparison Product Selection Chart

Model	802.11abgn Weatherproof Industrial Hotspot	802.11abgn Fast Industrial Hotspot	Industrial Cellular Gateway	ProLinX Edge Mini
	RLX2-IHNF-W(C)	RLX2-IHNF	ICX35-HWC	ELXM-SW6
<b>Features &amp; Specifications</b>				
<b>Device Connectivity</b>	Ethernet	Ethernet/Serial	Ethernet/Serial	Ethernet, Digital Input & Output
<b>Frequency Band(s)</b>	2.4 & 5 GHz	2.4 & 5 GHz	Cellular	2.4 & 5 GHz
<b>Regions Unlicensed Use Allowed</b>	Global	Global	Global	Global
<b>Wireless Technology</b>	IEEE 802.11abgn (WiFi 4)	IEEE 802.11abgn (WiFi 4)	4G LTE Cellular HSPA	IEEE 802.11ax (WiFi 6)
<b>Max Outdoor Range (miles/km)</b>	5 mi /8 km	5 mi /8 km	Unlimited	5 mi /8 km
<b>Fast Roaming (802.11r)</b>	Yes	Yes	N/A	Yes
<b>Fast Roaming (&lt; 10 milliseconds)</b>	Yes	Yes	N/A	-
<b>Repeater Mode</b>	Yes	Yes	N/A	-
<b>Max RF Data Rate (Gross)</b>	300 Mbps	300 Mbps	N/A	1020 Mbps
<b>Security/Encryption</b>	WPA2 PSK and Enterprise	WPA2 PSK and Enterprise	Internal Firewall, Belden Horizon VPN, OpenVPN, IPSec	WPA3 PSK and Enterprise
<b>Advanced Diagnostics</b>	Yes	Yes	N/A	Yes
<b>Hazardous Location Approvals</b>	Class 1, Div 2/ Atex Zone 2 (WC)	Class 1, Div 2/ Atex Zone 2	Class 1, Div 2	Class 1, Div 2/ Atex Zone 2
<b>Outdoor/Wash Down Rated Model</b>	IP67	-	-	-
<b>Wireless Applications</b>				
<b>Mobile Robots, AGV</b>	Yes	Yes	-	Yes
<b>Long-Range SCADA</b>	N/A	N/A	Yes	-
<b>Short-Range SCADA</b>	Yes	Yes	Yes	Yes
<b>Mobile Worker (Wi-Fi)</b>	Yes	Yes	-	Yes
<b>EtherNet/IP™ Object</b>	Yes	Yes	Yes	Yes
<b>EtherNet/IP™ Implicit Messaging (High-Speed IO)</b>	Yes	Yes	-	Yes
<b>Serial DF1, ASCII, Modbus®, DNP3, etc.</b>	-	Yes (encapsulation)	Yes (encapsulation)	-
<b>Video</b>	Fast Frame Rate	Fast Frame Rate	Yes	Fast Frame Rate
<b>Check for product availability in your country. N/A: Not Applicable. "-": Not Available</b>				

## In-Chassis Product Selection Chart

Platform	ControlLogix®	CompactLogix™	Point I/O
Protocol/Application			
AGA/API Gas & Liquid Flow Computer	MVI56E-AFC	MVI69E-AFC	
ASCII	MVI56E-GSC MVI56E-GSCXT	MVI69E-GSC	
'C' Programmable	MVI56E-LDM	MVI69E-LDM	
DNP3 Ethernet	MVI56E-DNPNET		
FA Control/Network	MVI56E-FLN		
GE Ethernet Global Data	MVI56-EGD		
Generic Ethernet ASCII	MVI56E-GEC	MVI69E-GEC	
IEC 61850 Client	MVI56E-61850C		
IEC 61850 Server	MVI56E-61850S		
Modbus® Serial	MVI56E-MCM MVI56E-MCMR MVI56E-MCMXT	MVI69E-MBS MVI69L-MBS	ILX34-MBS232 ILX34-MBS485
Modbus® TCP/IP	MVI56E-MNET MVI56E-MNETC MVI56E-MNETR MVI56E-MNETCR MVI56E-MNETXT	MVI69E-MBTCP MVI69L-MBTCP	
PROFIBUS DP Master	ILX56-PBM	ILX69-PBM	
PROFIBUS DP Slave	ILX56-PBS	ILX69-PBS	
Siemens® Industrial Ethernet	MVI56E-SIE		
PROFINET	ILX56-PNC	ILX56-PND	

### Have a legacy product that's no longer on these charts?

ProSoft can help you migrate to a newer solution with expanded functionality.

Learn more about solutions for legacy controllers at [psft.com](https://www.psft.com) or by contacting your local ProSoft office.

Many of ProSoft's in-chassis and gateway modules for Rockwell Automation systems feature Add-On Instructions or Add-On Profiles to help you increase efficiency and reduce configuration.

Learn more: [psft.com/DCC](https://www.psft.com/DCC)

Stand-Alone Gateways Product Selection Chart

Protocol/Application												
Application/Protocol	ASCII	DF1 Master/Slave	DNP 3.0 (Serial + Ethernet)	EtherNet/IP™	HART Multidrop/Analog (4 ch)	IEC 60870-5-104 Server	Modbus® Serial	Modbus® TCP/IP	OPC UA	PROFIBUS DP Master	PROFIBUS DP Slave	PROFINET
ASCII				PLX31-EP-ASCII PLX31-EP-ASCII4				Contact support				
BACnet®/IP, BACnet® MS/TP				RS-QS-2010-F (250 P) RS-QS-2210-F (500 P) RS-QS-3010-F (250 P) RS-QS-3110-F (500 P) RS-QS-3210-F (1000 P)			RS-QS-2010-F (250 P) RS-QS-2210-F (500 P) RS-QS-3010-F (250 P) RS-QS-3110-F (500 P) RS-QS-3210-F (1000 P)	RS-QS-2010-F (250 P) RS-QS-2210-F (500 P) RS-QS-3010-F (250 P) RS-QS-3110-F (500 P) RS-QS-3210-F (1000 P)				
DF1 Master/Slave		Contact support PLX51-DL-232 PLX51-DLplus-232		PLX51-DF-EMI PLX51-DF-MSG			Contact support	Contact support			Contact support	
DH485				A-DH485R8								
DNP 3.0 (Serial + Ethernet)				PLX51-DNPM PLX51-DNPS	PLX51-HART-4I (4 channel)		PLX51-DNPM PLX51-DNPS	PLX51-DNPM PLX51-DNPS			Contact support	
EtherNet/IP™	PLX31-EP-ASCII PLX31-EP-ASCII4	PLX51-DF-EMI PLX51-DF-MSG	PLX51-DNPM PLX51-DNPS		PLX51-HART-4I PLX51-HART-4O	PLX32-EP-104	PLX31-EP-MBS PLX31-EP-MBS4 A-MBR8	PLX31-EP-MBTCP PLX32-EP-MBTCP-UIA A-MBR8 ELX3	PLX32-EP-MBTCP-UIA	PLX51-PRM	PLX51-FRS	PLX31-EP-PND PLX32-EP-PND PLX32-EP-PNC
HART® Analog				PLX51-HART-4I PLX51-HART-4O				PLX51-HART-4I PLX51-HART-4O				
HART® Multi-drop			PLX51-HART-4I	PLX51-HART-4I (4 channel) PLX51-HART-4O								
IEC 60870-5-104 Server				PLX32-EP-104				PLX32-MBTCP-104				
IEC 61850				PLX32-EP-104				PLX32-MBTCP-104				
LonWorks™		RS-QS-1011-F (250 P) RS-QS-1211-F (500 P)		RS-QS-1011-F (250 P) RS-QS-1211-F (500 P)			PS-QS-1011-0154 (250 P) PS-QS-1511-0154 (500 P)	RS-QS-1011-0154 (250 P) RS-QS-1511-0154 (500 P)				
Metasys® N2		RS-QS-2010-F (250 P) RS-QS-2210-F (500 P) RS-QS-3010-F (250 P) RS-QS-3110-F (500 P) RS-QS-3210-F (1000 P)		RS-QS-2010-F (250 P) RS-QS-2210-F (500 P) RS-QS-3010-F (250 P) RS-QS-3110-F (500 P) RS-QS-3210-F (1000 P)			PS-QS-2010-F (250 P) PS-QS-2210-F (500 P) PS-QS-3010-F (250 P) PS-QS-3110-F (500 P) PS-QS-3210-F (1000 P)	PS-QS-2010-F (250 P) PS-QS-2210-F (500 P) PS-QS-3010-F (250 P) PS-QS-3110-F (500 P) PS-QS-3210-F (1000 P)				
Modbus® Serial			PLX51-DNPS PLX51-DNPM	PLX31-EP-MBS PLX31-EP-MBS4 A-MBR8 ELX3	Contact support		Contact support			PLX51-PRM	PLX51-FRS	PLX31-PND-MBS PLX31-PND-MBS4
Modbus® TCP/IP	Contact support		PLX51-DNPS PLX51-DNPM	PLX31-EP-MBTCP PLX32-EP-MBTCP-UIA A-MBR8 ELX3	PLX51-HART-4O PLX51-HART-4I	PLX32-MBTCP-104			PLX32-EP-MBTCP-UIA	PLX51-PRM	PLX51-FRS	PLX31-MBTCP-PND PLX32-MBTCP-PND PLX32-MBTCP-PNC
OPC UA				PLX32-EP-MBTCP-UIA				PLX32-EP-MBTCP-UIA				
PROFIBUS DP				PLX51-PRM PLX51-FRS			PLX51-PRM PLX51-FRS	PLX51-PRM PLX51-FRS				
PROFIBUS PA				A-PAUB				A-PAUB				
PROFINET				PLX31-EP-PND PLX32-EP-PND PLX32-EP-PNC			PLX31-MBTCP-PND PLX32-MBTCP-PND PLX32-MBTCP-PNC	PLX31-MBTCP-PND PLX32-MBTCP-PND PLX32-MBTCP-PNC				
Siemens® Industrial Ethernet				PLX31-EP-SE PLX32-EP-SE				PLX31-MBTCP-SE PLX32-MBTCP-SE				
CAN Protocols (CAN Open, DeviceNet, J1939)				A-CANORB A-DNTR8 A-J1939B			A-CANORB A-DNTR8 A-J1939B	A-CANORB A-DNTR8 A-J1939B				
ControlNet				A-CNR			A-CNR	A-CNR				
PTP/NTP				A-TSMB								
Data Logging	PLX51-DL-232 PLX51-DLplus-232			PLX51-DL-232 PLX51-DLplus-232			PLX51-DL-232 PLX51-DLplus-232	PLX51-DL-232 PLX51-DLplus-232				
FOUNDATION Fieldbus				A-FLJB				A-FLJB				

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## Support and expertise for your projects

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

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Contact Us



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