Industrial Wireless Interfaces
Stand-Alone Gateways
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.

**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!
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 skillet 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.
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

Radiating Cable

Rotating Equipment

Radiating Cable (replaces slip-ring)

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 CID2, 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.
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<th>Model</th>
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Check for product availability in your country.
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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.
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