Energy Generation and Distribution
COMMUNICATION SOLUTIONS

Around the world, power is being generated and distributed with increasing options as more importance is placed on sustainability. Whether you're monitoring power distribution at a substation or its generation via wind turbines or solar installations, ProSoft's communication solutions help connect your devices to your control systems, getting you the data you need to improve your operations.

ProSoft®
TECHNOLOGY

Protocol Solutions

Energy generation and distribution industries need information from the devices they use to improve their productivity. The protocols these devices use don't necessarily communicate with the top controllers used in the industry, which is where ProSoft Technology comes in. We have in-chassis modules and standalone gateways designed to connect your Rockwell Automation®, Schneider Electric® or other controllers with IEDs and other devices speaking the top energy protocols:

IEC 61850	DNP3
IEC 60870-5-101	DNP3 over Ethernet
IEC 60870-5-103	Modbus®
IEC 60870-5-104	Modbus® TCP/IP
PROFIBUS	PROFINET

Load Shedding

Substation RTU

Solar and Wind generation monitoring and control

Applications where our modules are used:

First Fault detection

PMCC communications

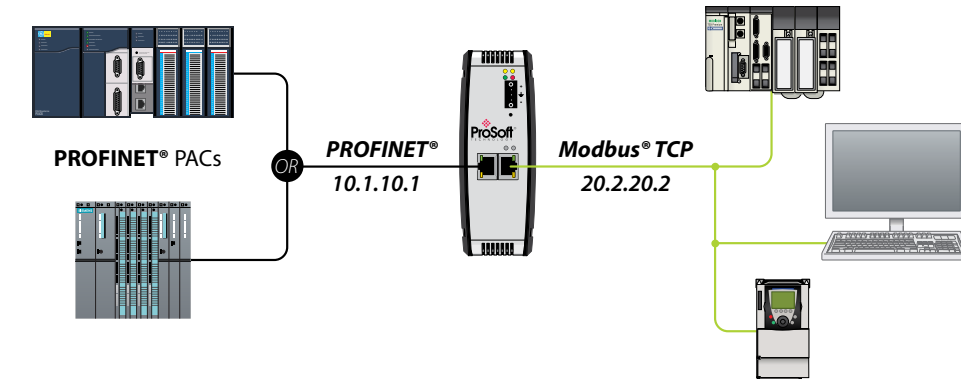*IED data concentrators simplify & optimize SCADA communications*

Benefits of ProSoft Solutions

• Premier integration of IEC61850 solutions helps you import IED tags with naming convention into the PAC/PLC

• Gateways featuring two Ethernet ports enable network segmentation, passing only the data you configure

PROFINET® PACs   OR   **PROFINET®**
10.1.10.1   **Modbus® TCP**
20.2.20.2

• Transportation of time-stamped event data

• In-chassis modules easily integrate with Schneider Electric's Quantum™ controllers or Rockwell Automation PACs/PLCs

Wireless Communications

802.11n	4G LTE	Frequency Hopper

Our 4G LTE Industrial Cellular Gateway helps you easily **maintain your remote equipment**. It works with ProSoft Connect, our secure, cloud-native platform for **Global VPN access**. Our Wi-Fi solutions are used for **high-speed distributed I/O** and **video monitoring**, and as **user access points**. Radiating cables can also be used along with our wireless radios – in applications involving wind turbines, the cables can **replace slip rings** in the rotorhead and other moving elements, and can strengthen communications for your personnel. Our Frequency Hopping radios can be used to **monitor data over large geographic areas**.

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	Rockwell Automation® In-Chassis	Schneider Electric® In-Chassis	Stand-Alone Gateways
Protocols			
IEC 61850	◆		◆
IEC 60870-5-101	◆	◆	◆
IEC 60870-5-103	◆	◆	◆
IEC 60870-5-104	◆	◆	◆
DNP3	◆	◆	◆
DNP3 over Ethernet	◆	◆	◆
Modbus®	◆	◆	◆
Modbus® TCP/IP	◆		◆
PROFIBUS	◆	◆	◆
PROFINET			◆

	Device Connectivity	Frequency Band(s)	Radio Modes	Maximum Outdoor Range
Wireless				
Frequency Hopping RLX-IFH9S	Serial	900 MHz	Master, repeater or remote	30 mi / 48 km
Frequency Hopping RLX2-IFH9E	Serial / Ethernet	900 MHz	Master, repeater or remote	30 mi / 48 km
Frequency Hopping RLX2-IFH24E	Serial / Ethernet	2.4 GHz	Master, repeater or remote	15 mi / 24 km
802.11n RLX2-IHNF	Serial/Ethernet	2.4 & 5 GHz	Single access point, repeater & bridge	5 mi / 8 km
802.11n RLX2-IHNF-W(C)	Serial/Ethernet	2.4 & 5 GHz	Watertight single access point, repeater & bridge	5 mi / 8 km
802.11bg RLX2-IHG	Serial/Ethernet	2.4 GHz	Single access point, repeater & bridge	10 mi / 16 km
802.11a RLX2-IHA	Serial/Ethernet	5 GHz	Single access point, repeater & bridge	5 mi / 8 km
Cellular	Serial / Ethernet	See Data Sheet	N/A	Global
Wireless I/O BM-xxx0-RM1K	Serial / I/O	Several frequencies available	N/A	1-4 mi / 1.6-6.4 km

Get the ProSoft Technology® Automation Advantage

Reliability
At ProSoft Technology® we don't just sell products. We sell tested, field-proven solutions. We provide products that are developed with end-users in mind. For more than 25 years, ProSoft has been known for our high-quality, reliable solutions.

Tutorial, Educational & Product Videos
Our worldwide Technical Support team is available to assist you with set-up and support throughout the lifecycle of your product. We also have product videos available on our website at **psft.com/BVN**.

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