End-to-End Industrial Networking Solutions

Wireless, Ethernet Switching and Network Management Products Deliver a Monitoring and Control Infrastructure for Critical Assets
Solutions for Industrial Networks

For more than 30 years, the Cooper Bussmann ELPRO brand of products have helped companies in more than 80 countries improve the management of their assets and operations through more effective monitoring and control with our reliable and secure communications solutions.

Cooper Bussmann offers the industry’s most comprehensive industrial networking solution for wired and wireless networks. Our complete line of wireless, ethernet switching and network management products delivers an infrastructure for your critical assets that is flexible, productive, safe and easily managed.

Our industrial automation and connectivity solutions are used in a variety of applications in the Water/Wastewater, Oil & Gas, Mining, Chemical, Pharmaceutical and Solar industries.

End-to-End Industrial Networking Solutions

We connect remote sensors, actuators and instrumentation to mission critical monitoring and control systems so our customers can improve their business operations.

Solution Benefits

- **Increase Productivity** at production startup, meet compliance deadlines and resolve ongoing maintenance problems. We help you gain insight into local and remote sites, conserving your resources and budget.
- **Improve Safety** by reducing or eliminating the need to expose workers to existing or potential hazards. Our solutions serve critical applications ranging from mine slope wall detection to safety shower alerts.
- **Reduce Total Costs** with simple to complex wireless architectures, and over small or large sites. We provide wire-free economics while delivering wire-like reliability.

We Provide an Integrated and Complete Network Infrastructure Solution

The Industry’s Broadest Industrial Wireless Portfolio delivers a comprehensive solution for reaching any device in the network, streamlining operations, improving productivity and safety, and reducing overall cost. The ELPRO brand features a complete set of products including Remote I/O, Gateway, Ethernet Modern and Serial modem options.

Our Reliable and Secure Ethernet Switches integrate PLCs, SCADA and field devices with wireless networks to create a seamless industrial network. The increased visibility of device activity and overall reliability of the network leads to a more productive and safer solution at a lower total cost of ownership. We offer a flexible solution through a variety of configurations featuring managed and unmanaged models.

The Network Management System offers a cost effective way to plan, deploy, monitor and troubleshoot your network. The intuitive, flexible and highly scalable tool is ideal for the monitoring and management of all critical aspects of your network.
End-to-End Industrial Networking Solutions

Rugged: Our Ethernet switches support the industrial temperature, vibration, and surge ratings our customers expect.

Secure: Supporting proven protocols for port security and access control, the network can be operated with assurance that it is safe from unwanted data.

Reliable: Our managed switches are designed to balance data traffic and recover from network failures quickly and easily. Our switches support SNMP for easy remote management, Quality-of-Service to prioritize critical messages, and self-healing ring technology for quick recovery from lost links.

Flexible: Our Ethernet Switch Portfolio features a variety of managed and unmanaged configurations, delivering a comprehensive solution for device and control network connectivity.

Product Benefits
• Industrial and critical safety ratings support deployment anywhere in your plant.
• Seamless, end-to-end connectivity from the field device or sensor to the control system.
• Millisecond-level recovery of link failures ensures network resilience.
• Safe, secure operation with access control and intrusion management tools.
• Segregation of control traffic ensures prioritization for safe operation.
• Seamless, easy deployment along with our industry-leading Wireless products and Network Management solution.

Network Management Made Easy

Complete: Powerful and comprehensive solution to cost effectively plan, deploy, monitor, and troubleshoot your wireless and wireline network.

Flexible: Create a dashboard view for performance status of all devices connected to the network, displaying exactly what you want to see.

Visual: Map or topology visualization is automatically updated with additions or deletions of network nodes.

Reliable: Increase your network performance and reliability through proactive network analysis and intelligent control.

Product Benefits
• Intuitive, easy to install, integrate and use.
• Proactively detect problems before network outages occur to reduce impact on business activities.
• Immediate fault notifications and the availability of key metrics and status information decreases fault resolution time and increases resource efficiency.
• Distributed server architecture and network scalability allows thousands of wireless and LAN-based devices to be monitored and controlled.
• Achieve highest network efficiency with operational simplicity.
• Security notification in real-time if an unauthorized wireless device accesses the network or security settings are changed.

Cooper Bussmann’s industrial Ethernet switch family integrates our industry-leading wireless portfolio with critical assets such as PLCs, SCADA systems, and intelligent devices. Our managed portfolio can be completely integrated using our Network Management System to provide end-to-end connectivity and management of your industrial network.
Water/Wastewater Solution
As the #1 Supplier of Industrial Wireless Solutions for Water and Wastewater, we know that solutions need to be designed for the highest visibility of devices and optimal operating cost. Our products provide complete wireless monitoring, control, and networking solutions for water/wastewater systems across the globe to help increase productivity and efficiency, reduce downtime and costs, and ensure safety.

Application
Critical Monitoring and Control of a Public Water/Wastewater System Serving a Large Concentrated Population
- NMS Software
- 900MHz Wireless Radios with Serial/Ethernet connectivity
- Low port count Unmanaged Ethernet Switches
- Managed Ethernet Switches/Fiber Rings.

Mining Solution
In mining environments, network coverage and reliability can be hard to achieve while still controlling infrastructure costs. Our comprehensive solutions perform in the rugged, complex, and long-distance applications of the mining industry. We provide cost-effective solutions while delivering reliability for surface and underground mining operations.

Application
Monitoring, Control, Connectivity, and Visibility Throughout an Extensive Mining Facility
- NMS Software
- Managed Ethernet Switches/Fiber Rings
- 900MHz Multi-I/O Devices
- 900MHz Mesh Radios
- 3G Cellular Modems/Routers

Oil and Gas Solution
Oil and Gas deployments require reliable, safe solutions with no margin for error. Cooper Bussmann’s industrial networking solutions are found throughout Oil & Gas operations worldwide. Our products provide reliable, secure, robust communications helping our customers to cost effectively improve safety, monitor and/or control plant/equipment and better manage operations over long distances.

Application
Monitoring, Control and Connectivity Across Gas Wellheads
- NMS Software
- 900MHz Wireless Ethernet
- Managed Ethernet Switches/Fiber Rings
- Video Surveillance via 3G Cellular Modems/Routers

Solar Solution
The rapidly evolving need to remotely monitor and control utility-scale solar power generating assets is driving demand for advanced solar monitoring solutions. Our full suite of products are optimized to meet the demanding requirements of utility-scale deployments, and can be combined with site-specific services to deliver a best-in-class solar monitoring solution.

Application
Smart Monitoring and Connectivity Across Solar Collector Field
- NMS Software
- Managed Ethernet Switches/Fiber Rings
For more information:
Please visit our website for further details or contact your local representative.

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For more than 30 years, the Cooper Bussmann ELPRO brand of products have provided complete wireless monitoring and control solutions to the industrial market. Offering a comprehensive range of industrial wireless products, global technical support and over 100 technically qualified partners worldwide, Cooper Bussmann is a market leader in industrial wireless technology today. With numerous solutions deployed worldwide in process, instrumentation and automation applications, ELPRO has a solution for your application need.

www.cooperbussmann.com/wireless

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