



NET | MODULE

NetModule

Industrial Solutions

belden.com

Connect to what's possible.



NetModule

We've provided robust and safe communication for our customers for over 20 years. We are set to partner with you and support you with our expertise — in terms of our products as well as our consulting and supporting services. We offer an extensive range of smart solutions for today's and tomorrow's challenges. We support you in the different markets and add value by opening communication channels.

NetModule — connection is our business

NetModule is a leading manufacturer of communication products for Machine to Machine (M2M) and Internet of Things (IoT). One focus is on our solutions for applications in the fields of shipping, local and long-distance public transit, and Industrial Internet. Future markets such as Smart City, public safety, and sustainable energy and resource management are further focus areas. The key technology here is 5G.

Our devices are certified and include the latest wireless technologies along with multiple interfaces for applications where robust communication is essential. Examples are information systems, driver communication, passenger WiFi, remote maintenance, condition monitoring and real-time data exchange.

Founded in 1998, NetModule is a Swiss company headquartered in Bern with a branch in Winterthur and subsidiaries in Frankfurt and Hong Kong. In spring 2022, we became a Belden brand. NetModule is ISO 9001:2015 certified.



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The right solution for your safer, smarter and more prosperous future





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Your challenges. Our solutions.



Condition monitoring

How can condition monitoring enhance your efficiency?

Monitoring systems, tracking machine status and optimizing maintenance intervals reduce your service costs. NetModule routers make this possible with their versatile interfaces, ensuring secure and reliable access—no need for expensive technology upgrades.

Condition monitoring focuses on key goals: predicting failures, optimizing maintenance, cutting costs through early detection, boosting safety by promptly addressing risks and keeping operations efficient with well-maintained equipment.

NetModule routers offer robust network connections via LTE/UMTS, WiFi, Ethernet and fiber optics. Multiple WAN interfaces enable fallback connections to ensure seamless access.

For secure connection with your central office, the router software includes a VPN protocol suite and firewall that meet industry standards.



NB1601 Industrial Router

- Mobile Networks (LTE/ UMTS), WiFi and Ethernet
- Interfaces like Digital I/O, RS-232, RS-485, CAN and Bluetooth
- TS35 rail mounting, wide operating temperature range (-40°C /-40 °F to +85°C/+185°F) and IP40 metal housing



Industrial security

How can you easily secure your industrial network?

In an increasingly connected world, industrial security is crucial. While networking offers significant benefits, it also opens the door to risks like unauthorized access. NetModule routers provide secure solutions to protect and connect your critical infrastructure.

The fourth wave of the industrial revolution demands future-ready, networked systems. Remote control, monitoring and maintenance are essential, but so is protection against increasing cyberattacks and industrial espionage. NetModule routers enable secure connections between system control units and networks.

Our routers seamlessly integrate operational installations into networks while shielding them and your critical infrastructure segments from internet threats. Built-in industry-standard firewalls and VPN protocol suites ensure robust encryption and security.



NB1810 Industrial Router

- Mobile Networks (5G/LTE/ UMTS), WiFi and Ethernet and fiber optics
- Interfaces like Digital I/O, RS-232, RS-485, CAN and Bluetooth
- TS35 rail mounting, wide operating temperature range (-40°C /-40 °F to +85°C/+185°F) and IP40 metal housing



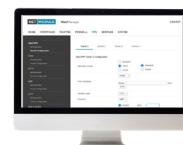
Remote management

Can your routers be managed conveniently?

Remote management enables efficient control, maintenance and repair of IT systems from anywhere. It boosts resource utilization and reduces costs for customers worldwide—thanks to NetModule routers.

For systems in hard-to-reach locations or those, like fire and hazard alarm setups requiring strict legal compliance, remote management is often the most effective solution. NetModule routers ensure reliable connectivity for remote operations and repairs.

Built for continuous and safe operation, NetModule routers perform constant checks on connections and hardware using software mechanisms.



Connectivity Suite

- Device management, over-the-air remote updates and configurations
- Remote maintenance at any time, at any location worldwide with just a few clicks
- Large-scale rollout made easy thanks to automated task processing
- On-premises or cloud installation



Renewable energy monitoring

How can you boost your efficiency in energy monitoring?

Renewable energy plays a vital role in protecting the climate, ensuring resource security and avoiding conflicts over raw materials. Reliable data connections are essential for hard-to-reach installations like wind farms, and hydroelectric or solar power plants. NetModule routers deliver these connections.

Renewable energy harnesses natural processes to produce electricity, heat and fuel from sustainable sources.

NetModule routers can be managed remotely, over the air, enabling software and firmware updates without physical access.

For challenging locations, system monitoring and recovery mechanisms are crucial. NetModule routers feature power-saving functions, ideal for solar-powered system batteries. They allow remote shutdowns and timed reactivations by timer to optimize battery use.



NB1800 Industrial Router

- Mobile Networks (5G/LTE/UMTS), WiFi and Ethernet and fiber optics
- Interfaces like Digital I/O, RS-232, RS-485, CAN and Bluetooth
- TS35 rail mounting, wide operating temperature range (-40°C / -40 °F to +85°C / +185°F) and IP40 metal housing

Your challenges. Our solutions.



Smart city

How can you connect a whole city?

As cities grow larger and denser, challenges increase. The IoT offers solutions to make cities greener, safer and more efficient. By linking devices, vehicles and infrastructure, energy and water consumption can be reduced, service routes optimized, safety improved and resources used more effectively. NetModule routers provide the reliable and robust connectivity needed to achieve these goals.

Smart traffic management enhances flow and safety, while intermodal and multimodal transportation define modern cities. NetModule's mobile network routers provide dependable and smart integration for diverse systems.

Outdoor lighting is a critical and costly part of urban infrastructure. IoT-enabled smart lighting management improves efficiency and reduces costs in control and maintenance. NetModule routers deliver the robust connectivity that's essential for these systems.



NB 800 IoT Router

- Mobile Networks (LTE/UMTS), WiFi and Ethernet
- Interfaces like Digital I/O, RS-232, RS-485, CAN and Bluetooth
- TS35 rail mounting, wide operating temperature range (-40°C / -40 °F to +85°C / +185°F) and IP40 metal housing



Digital signage

How can you benefit from smart advertising?

Digital signage uses dynamic, interactive media for electronic poster ads and screen-based communication in stores. It delivers targeted advertising and real-time information, enabled by our NetModule routers' fast, reliable data transfer.

NetModule routers let you put digital ads online in minutes, from any location at any time. With LTE, WiFi or both, they ensure seamless connectivity without costly or impractical wired setups. The integrated GNSS receiver supports locally targeted ads, while Bluetooth Low Energy allows configuration as beacons for smartphone-based customer information.

Equipped with industry-standard VPN protocol suites and firewall functions, NetModule routers provide you with robust security. The routers' compact design enables installation even in tight spaces.

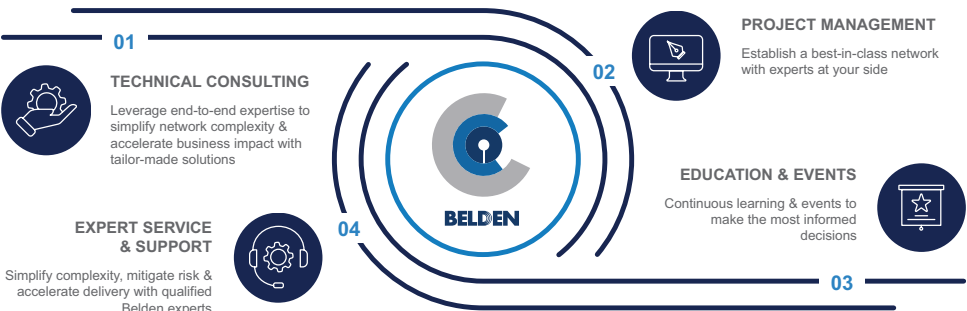


Belden offers complete connection solutions for all your networking needs

As an end-to-end network solution provider, Belden enables you to access the solutions, services and tools you need to move ahead on your digitization journey.

Global Customer Innovation Centers

The digitization journey is about unleashing the power of data to build a world of possibilities where customers can shape their



business’s future by proactively responding to ever-changing market trends.

The Customer Innovation Center™ (CIC) is a space where innovation, creativity and collaboration are nurtured to find continually better solutions to digital challenges. Our experts and consultants offer their deep knowledge of hardware, software and operations elements to guide customers step by step in their digitization journeys.

To ensure that our customers have confidence in their networks, we assess their processes and network to identify challenges and opportunities. We design and tailor the best solution from the ground up to meet specific KPIs while delivering a network that outperforms industry benchmarks. Our state-of-the-art technology and expertise enable us to validate the solution before implementing it and provide post-sales services and support, effectively eliminating risk for the customers.

To guarantee our support on a global scale, we operate five Customer Innovation Centers across the world—Stuttgart, Germany; Santa Clara and Chicago, United States; Shanghai, China; and Bangalore, India. The CICs offer the opportunity to touch and feel our solutions and explore endless possibilities. We bring the offline and online worlds together in collaborative labs and training spaces designed to foster the innovation our customers require.



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About Belden

Belden Inc. delivers complete connection solutions that unlock untold possibilities for our customers, their customers and the world. We advance ideas and technologies that enable a safer, smarter and more prosperous future. Throughout our 120+ year history we have evolved as a company, but our purpose remains – making connections. By connecting people, information and ideas, we make it possible. We are headquartered in St. Louis and have manufacturing capabilities in North America, Europe, Asia and Africa.

For more information, visit us at:
belden.com

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