BELDEN

Seamlessly Integrated Solution for Intelligent Traffic Systems

Achieve reliable and cost-effective networking in harsh ITS conditions with multi-purpose solutions

With billions of vehicles worldwide, monitoring and managing traffic flow is critical to the safety and efficiency of urban road networks. Intelligent traffic systems (ITS) need technologies and components designed to ensure reliable and secure network connectivity, no matter the conditions.

- **Enable seamless connection** of cameras, sensors and other end devices with Power over Ethernet (PoE) capability

- **Operate in harsh outdoor environments,** including extreme temperatures, dust and water/rain

- **Future-proof the traffic network** with regular, free software upgrades providing security patches and future technology capabilities like TSN

- **Support high-definition data transmission** without adding exponential costs through high-bandwidth hardware options

Belden continues to expand its portfolio for Intelligent Traffic Systems to offer powerful, yet cost-effective solutions – including the compact BOBCAT full Gigabit PoE switch.

Benefits of a One Belden Solution

- Lower total cost of ownership with free of charge upgrades

- Seamless integration with legacy and IT technologies

- Ad-hoc upgrades to higher bandwidth (including 2.5 Gbit/s)

- Ready for the future with TSN capabilities

- Support for increasing power needs, like trackside cameras

- Reliable installation in harsh environments with IP67 designs

Be ready for increasing network bandwidth and security requirements, while ensuring 100% availability of critical data at all levels of your traffic system network.

A Complete Networking Solution for Intelligent Traffic Systems

Belden offers a comprehensive portfolio of interoperable products to ensure an advanced, cost-effective and reliable solution for ITS providers.

POWERFUL
Multi-Purpose Devices

Leverage PoE+ options to ensure your network can support the increased use of cameras, sensors, traffic lights and other end devices, which need reliable power, but without adding additional power sources.

DURABLE
Hardened for Extreme Environments

Protect your network's reliability and uptime with solutions that offer additional protection from harsh outdoor environments. Ensure operability across the globe despite extreme temperatures and exposure to water — even when installed outside of a cabinet.

FAST
High-Speed Data Transfer

Filter and prioritize large quantities of signaling data at high uplink speeds. Ensure your network is TSN-ready and can support future streaming needs at bandwidths up to 2.5 and 10 Gigabits with high-speed, high-port count devices.

VALUABLE
Purpose-Built Functionality

Benefit from Belden's extensive list of configurable software and hardware options. Get the powerful device features you need without paying for anything extra. Leverage smaller, more compact devices to save valuable space in traffic systems.

Recommended Products

BOBCAT Next-Gen Managed Switches

Compact and powerful switches with up to 24 ports and fast Ethernet speeds up to 2.5 Gbit/s.

Modular Industrial Patch Panels (MIPP)

Termination and patching solution for fiber cables with a robust construction and high port density.

Industrial Ethernet Patch Cords

Secure, end-to-end data transmission in harsh conditions, from the field/control to management level.

LEMUR Lite Managed Switch Family

Easy-to-use, ruggedized and secure lite managed switches offer sought-after features, such as high port counts, PoE/PoE+ options, and advanced data rates.

PROVIZE Explorer

PROVIZE Explorer allows users to commission devices after unboxing to streamline installation and setup.

PROVIZE Planner

PROVIZE Planner streamlines network planning and configuration and identifies equipment needs before installation.
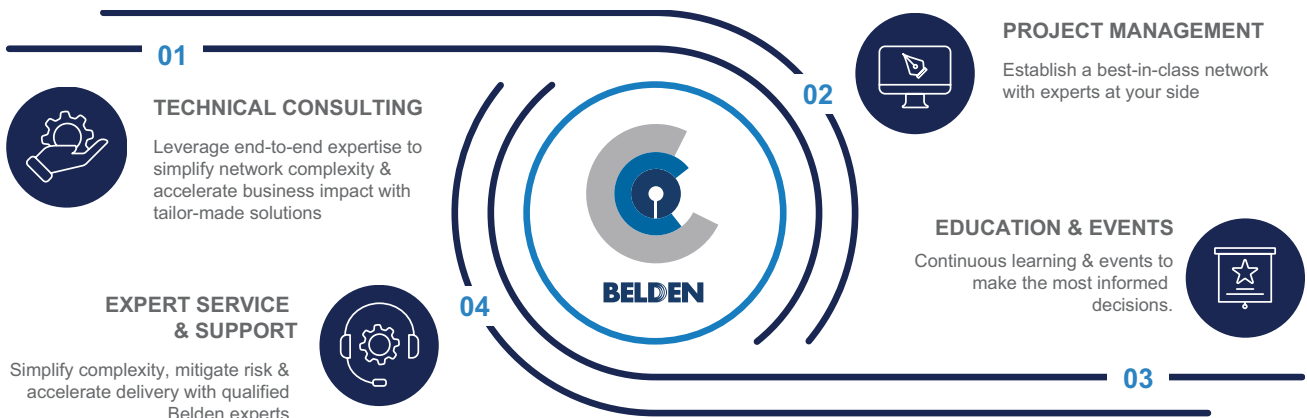
DRAGON MACH4x00 Backbone Switches

An advanced architecture to transfer more OT/IT network data at speeds up to 10 Gbit/s.

Industrial HiVision Network Management Software

Automatic device identification, configuration and monitoring for a comprehensive, efficient approach.

Global Customer Innovation Centers

01 TECHNICAL CONSULTING

Leverage end-to-end expertise to simplify network complexity & accelerate business impact with tailor-made solutions

02 PROJECT MANAGEMENT

Establish a best-in-class network with experts at your side

03 EDUCATION & EVENTS

Continuous learning & events to make the most informed decisions.

04 EXPERT SERVICE & SUPPORT

Simplify complexity, mitigate risk & accelerate delivery with qualified Belden experts

Customer™ Innovation Center

Belden can help you transition to the latest traffic control technologies without completely replacing your legacy installation. The qualified experts at our Customer Innovation Center (CIC) design and develop innovative, customized solutions based on your individual requirements and business objectives.