



EXCELLENCE. REDEFINED.

# TRANSPORTATION

Solutions for Rail, Tunnel & Traffic Management

# SOLUTIONS FOR RAIL, TUNNEL & TRAFFIC MANAGEMENT

Roads and rails need to move more than vehicles, passengers and freight – they need to move data. Safe and efficient operations demand that transportation networks serve as information infrastructures that provide a real-time view of safety, performance and traffic conditions to the people that are responsible for system management.

Today's most efficient road and rail systems rely on information, which is why highway authorities, railways, municipalities and other organizations around the world rely on Red Lion Controls to provide intelligence and communications wherever their operations reach.

Red Lion industrial networking and automation products are at the heart of many successful rail, subways, tunnel monitoring, traffic management and other transportation systems. Understanding market demands, we design and deliver industrial Ethernet switches, cellular, and HMIs to meet the most stringent physical and information network requirements.

Red Lion helps to improve safety, efficiency and information flow in the transportation industry through applications for rail, tunnel and traffic management.

## RAIL MANAGEMENT

Create advanced telematics systems using Red Lion's industrial Ethernet switches and wireless devices to collect and manage data from passenger management systems, cameras, engine monitoring systems and more.

Red Lion has a wide selection of EN50155-compliant products for rail rolling stock applications, ensuring consistent performance in areas such as emissions, shock, vibration and operating temperature. Our IP67-rated fault-tolerant switches offer up to 16 rugged M12 ports to connect multiple Ethernet devices. They can be remotely monitored and controlled for outstanding reliability.



- ▲ 708M12 and 716M12 managed Ethernet switches
- ▲ 105M12 and 108M12 unmanaged Ethernet switches
- ▲ NT24k-16M12 and NT24k-16M12-POE managed Ethernet switches



- ▲ 1000 Series unmanaged PoE switches and injectors
- ▲ 105TX-POE and 105FX-POE unmanaged Ethernet switches

## TUNNEL MANAGEMENT

Putting Ethernet infrastructure inside tunnels enables operators to use responsive monitoring and management capabilities to get more control. By collecting, managing and communicating data from video cameras, sensors, and other devices, Red Lion industrial products deliver real-time data to the systems that rely on it for safety, traffic management, toll collection, and motorist information displays. Our PoE switches are designed to transmit power along with data over an Ethernet network to PoE capable cameras.

The following products offer many connectivity options for supporting systems inside tunnels to sharing data in real time with monitoring and control systems miles away at gigabit speed:

- ▲ NT24k M12 and IP20 PoE models
- ▲ 1000 series unmanaged PoE injectors and switches



## TRAFFIC MANAGEMENT

Add range and reliability to traffic controls with Red Lion. Our Ethernet switches with fiber transceivers have been installed inside traffic cabinets to support fiber optic data links spanning up to 80 km. The range is only surpassed by reliability, because the switches are rated to operate in temperatures ranging from up to -40°C to 85°C, offer IP40-rated protection, are designed to comply with NEMA TS-2 standards and have other features and options to ensure continual operation and accurate data communication.

With an MTBF of more than 1 million hours, the following Red Lion products help keep traffic and data flowing smoothly regardless of location:

- ▲ NT24k managed switches
- ▲ 700/7000 series managed switches



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From supporting remote video cameras for security and traffic monitoring to diagnostic systems that instantly collect data as trains and cars roll past unattended checkpoints, transportation authorities rely on Red Lion to ensure information and operations keep moving. Regardless of application, our HMI operator interfaces seamlessly combine protocol conversion, data logging and web server capabilities with visualization functionality for PLCs, motor drives, and other communications-capable devices. Our NT24k managed industrial Gigabit Ethernet switches offer modular flexibility in rackmount and DIN rail configurations to deliver maximum fiber or copper connectivity.



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Red Lion has been delivering innovative solutions to global markets since 1972 through communication, monitoring and control for industrial automation and networking - enabling companies worldwide to gain real-time data visibility that drives productivity. Red Lion is part of Spectris plc, the productivity enhancing instrumentation and controls company. For more information, please visit <http://www.redlion.net>

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