



## OPEN-ROAD TOLLING FOR NHDOT

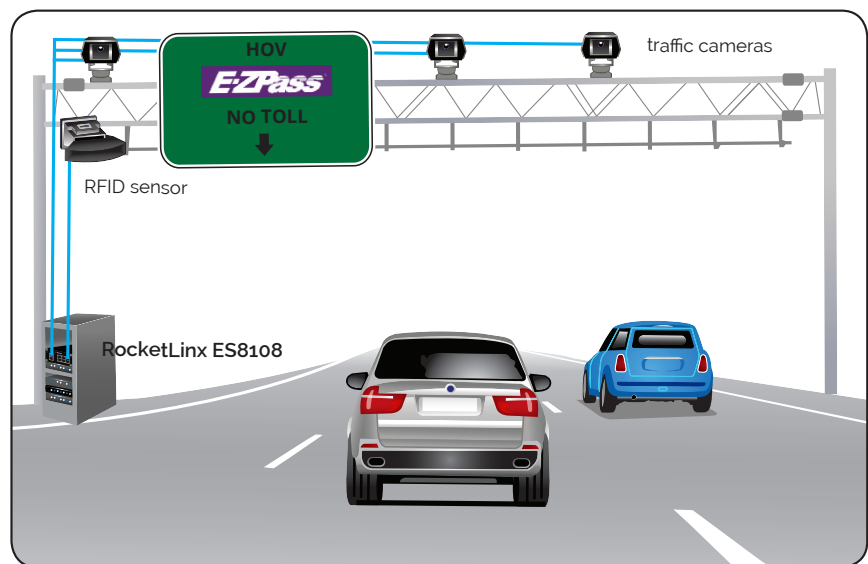
The roads and freeways of America’s cities often become extremely congested during rush hours. As a result, the New Hampshire Department of Transportation (NHDOT) is making High Occupancy Vehicle (HOV) lanes open to use for Single Occupant Vehicles (SOVs) for a toll.

The tolling system (E-ZPass) is modeled similarly to that of the SunPass, MNPass, I-Pass, and EZ-Pass systems in Florida, Minnesota, Illinois, and Indiana. It is required that numerous sensors and other pieces of equipment have the ability to reliably communicate – for an efficient and dependable tolling experience. An experienced Electronic Toll Collection (ETC) company was hired by NHDOT to oversee the upgrading of the tolling system.

Control was able to provide a solution for the ETC company with the RocketLinx ES8108. The ES8108 is an unmanaged, industrial Ethernet switch, requiring no set up to allow true “plug-and-play” connectivity. The ES8108 transfers and receives data to and from connected devices. For this application, the ES8108 would maintain communication between sensors and traffic cameras in various tolling lanes.

Control has partnered with this ETC company in the past for transportation solutions, and the partnership experience played an important factor in choosing Control again. The RocketLinx ES8108 offered the desired port density for the application, and can function in temperatures ranging from -25°C to +70°C. In addition, the ES8108 is protected by IP31 grade aluminum housing. This provides excellent heat dispersion, protects against dust and water damage, and allows for easy DIN rail installation.

RocketLinx Industrial Ethernet switches are made for use in harsh environments and provide rugged connectivity solutions for industrial Ethernet networks and systems such as industrial packaging and processing, traffic intersection management and sensor data collection. Along with having IP31 grade protection for rugged, harsh environments, these switches are designed to provide dependable networking solutions.



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# ES8108

Part Number: 32055-5



- 8-Port 10/100BASE-TX Industrial Fast Ethernet Switch
- 2.0Gbps Switch Fabric with excellent data exchange performance
- QoS for packet forwarding precedence
- Broadcast storm packet filtering
- Supports 1.5KV Hi-Pot isolation protection
- Redundant dual power input 10 to 60VDC
- Port and Power Event Alarm
- Compact aluminum case with IP31 grade protection
- -25° to 70°C operating temperature for harsh environments
- DIN rail installation
- Meets heavy industrial EMI/EMC regulations
- RoHS2 compliant under CE
- VLAN tag priority support

The RocketLinX ES8108 is Comtrol's 8-port Fast Ethernet industrial switch featuring a 2.0Gbps Packet Switch engine with packet forwarding and filtering mechanisms to meet industrial communications standards. It provides packet forwarding capabilities to handle 64 to 1522 byte long packet sizes in two priority queues to optimize data forwarding performance. Broadcast storm filtering and flow control functions ensure data delivery free of traffic congestion.

For installation in harsh or industrial environments, the ES8108 is equipped with two redundant power inputs, features a rugged IP31 grade housing, and operates within a broad -25° to 70°C temperature range. For ease-of-maintenance, the ES8108 has alarm output relays for port link and power events to assist engineers with on-site monitoring.

## RocketLinX Reliability

The RocketLinX ES8108 includes dual power inputs that can operate on 10 to 60VDC. Dual power inputs and built-in reverse power polarity protection are designed as the redundant power system to ensure power continuity. With the 1.5KV Hi-Pot isolation protection, CE/FCC/UL regulatory approvals, and a 5-year warranty, the RocketLinX ES8108 is the ideal switch solution for deployment in harsh and industrial environments.



### Warranty Information

Control offers a 30-day satisfaction guarantee and 5-year limited warranty.

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