

TRAFFIC MONITORING FOR IOWA DEPARTMENT OF TRANSPORTATION

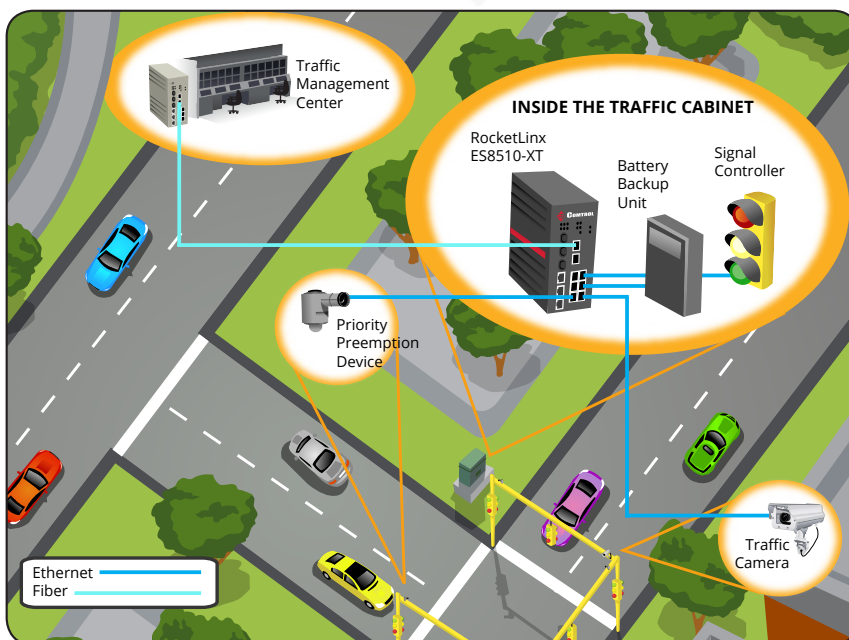
Whether a traffic light controls a congested city street, or a railroad system runs on an almost-empty road, reliable connectivity is essential for the efficient use of traffic control technology.

The Iowa Department of Transportation (IDOT) recognizes this, and as a result, is upgrading over 200 of its traffic intersection monitoring systems. Numerous components go into making a traffic light function properly – cameras, priority preemption systems, battery backups, memory management units (MMU's), traffic controllers, stop arm detection, and in-ground sensors. All of these devices must be able to efficiently communicate in order to fulfill their purpose.

IDOT turned to Control to enable this communication. Control's solution was the RocketLinX ES8510-XT. The ES8510-XT industrial Ethernet switch allows users to optimize the RocketLinX's settings for any application in order to achieve maximum efficiency. The ES8510-XT provides reliable communication between all devices involved in traffic control, while also relaying data to the traffic management system via Single-Mode fiber optics.

The ES8510-XT is NEMA TS2 certified to operate in extreme conditions. IDOT required this certification to ensure the switches will continue to operate during harsh winters – in which the switch may even become inaccessible. The NEMA TS2 certification guarantees switch function in a wide temperature range of -40°C to 74°C, while the management features built in to the ES8510-XT allow for remote configuration and troubleshooting. In addition, the ES8510-XT is protected by IP31 grade aluminum housing, providing excellent heat dispersion and protection against dust and water damage – making it perfectly designed for any traffic control environment.

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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RocketLinx® ES8510-XT

Part Number: 32061-6



KEY FEATURES AND BENEFITS

- Multiple redundant ring (recovery time <5ms)
- Seven 10/100BASE-TX ports and three Gigabit RJ45/SFP combo ports (10/100/1000BASE-TX, 100BASE-FX, 1000BASE-X)
- 32Gbps non-blocking, 8K MAC address table
- VLAN, GVRP, QoS, IGMP snooping V1/V2/V3, rate control, port trunking, LACP, online multi-port mirroring
- Management via console CLI, Web, SNMP V1/V2c/V3, RMON, HTTPS, SSH and NetVision
- Advanced security feature supports IP security, port security, DHCP server, IP and MAC binding, 802.1x network access control
- Event notification by email, SNMP trap, syslog, digital input and relay output
- -40° to +74°C operating temperature for extreme environments
- Rigid aluminum IP31 housing, excellent heat dispersion, redundant power, DIN rail/wall mount installation
- NEMA TS2 Compliant
- RoHS2 compliant under CE
- IPv6 support

PRODUCT DESCRIPTION

The RocketLinx ES8510-XT is a managed industrial Ethernet switch, equipped with seven 10/100TX ports and three 10/100/1000 RJ45/100-FX/Gigabit SX/LX/LHX/ZX/SFP combo ports. Two Gigabit ports may be used to form a non-stop Redundant Ring while the third Gigabit port enables connection to an upper switch, couple ring or public server. The Gigabit combo port design provides flexibility to choose copper or fiber media supporting 100BASE-FX or 1000BASE-X, Multi-Mode or Single-Mode for a wide variety of distance and installation requirements.

The RocketLinx ES8510-XT is housed in a rugged aluminum enclosure that features an excellent heat dispersing mechanical design and extended operating temperature support. The embedded software supports full Layer 2 management features, multi-form ring redundancy, network control, monitoring, security and notification. The RocketLinx ES8510-XT also provides a built-in watchdog timer and digital input and relay output to avoid undetected problems. The RocketLinx ES8510-XT provides the perfect foundation for building your industrial Ethernet infrastructure.

Three Gigabit Ports for Flexible Network Planning

A unique feature to the RocketLinx ES8510-XT is the three Gigabit RJ45/SFP combo ports, which can improve performance dramatically compared to products with only two Gigabit RJ45/SFP combos. Each combo comes with a flexible connection - 100Mbps or 1000Mbps, as well as fiber or copper connection options. All together, as many as ten different combinations of port connections are possible. By selecting the appropriate fiber transceivers, the RocketLinx ES8510-XT can meet your industrial application requirements with virtually any transmission distance.

100/1000Mbps SFP

The RocketLinx ES8510-XT SFP socket supports 100BASE-FX Single/Multi-Mode and 1000BASE-SX/LX/LHX/XD Multi/Single-Mode transceivers. The available distance of the 100BASE-FX is up to 30KM. 1000BASE-SX Multi-Mode supports 550M, 1000BASE-LX Single-Mode supports 10KM, 1000BASE-LHX Single-Mode supports 30KM, 1000BASE-XD Single-Mode supports up to 50KM. 1000BASE-ZX Single-Mode supports up to 70KM.



Warranty Information

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

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