



TUNNEL AND TRAFFIC MONITORING SYSTEM FOR NEVADA DEPARTMENT OF TRANSPORTATION

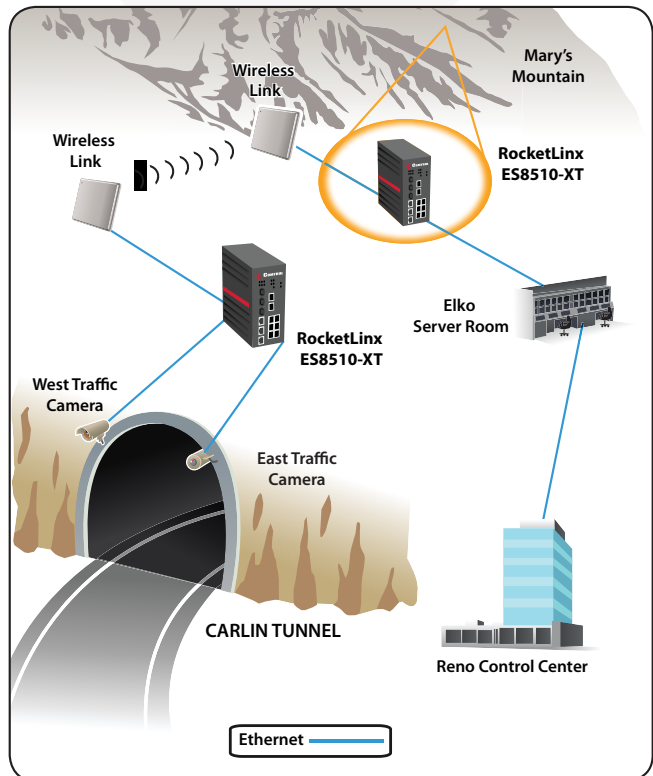
The Nevada Department of Transportation (DOT) needed to expand their traffic monitoring system along Interstate 80, about 250 miles northeast of Reno.

During this expansion project, the Nevada DOT chose Comtrol's RocketLinx ES8510-XT switch to enable data transmission from their traffic cameras to server room monitoring stations, eventually showing up on live feeds at the DOT monitoring station.

One of the monitoring systems involved installing two traffic cameras to monitor the traffic flow going both east and west through the Carlin Tunnel, just west of Elko, NV. Both cameras are connected to one RocketLinx ES8510- XT industrial Ethernet switch, which directs information wirelessly through a point-to-point wireless link to another RocketLinx ES8510-XT switch installed on Mary's Mountain. The data is then routed down to Elko's server room. Additional switch-camera installations of similar configurations near Elko are also routed to the server room, which sends all of the information to the DOT control center in Reno.

The Nevada DOT decided to implement Comtrol's switches into their system as a cost-effective, easily-configurable solution for their needs. The RocketLinx ES8510-XT was chosen over the competition for the addition of an extra fiber port as well as for its maneuverability within the DOT's system structures. The switch is also NEMA TS2 compliant, allowing for reliable operation in extreme temperatures ranging from -40° to +74°C.

The RocketLinx ES8510-XT is housed in a rugged aluminum enclosure that features an excellent heat dispersing mechanical design. 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, providing the perfect foundation for building an industrial Ethernet infrastructure.



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RocketLinx™ ES8510-XT

Part Number: 32061-6



KEY FEATURES AND BENEFITS

- Multiple redundant ring (recovery time <5ms)
- 7 10/100BASE-TX ports and 3 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

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

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

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