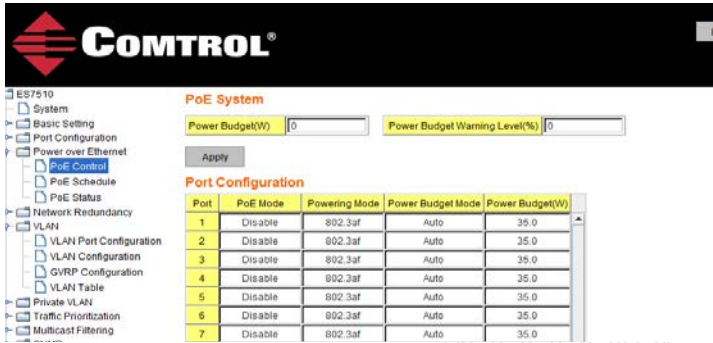


# ROCKETLINX ES7510-XT

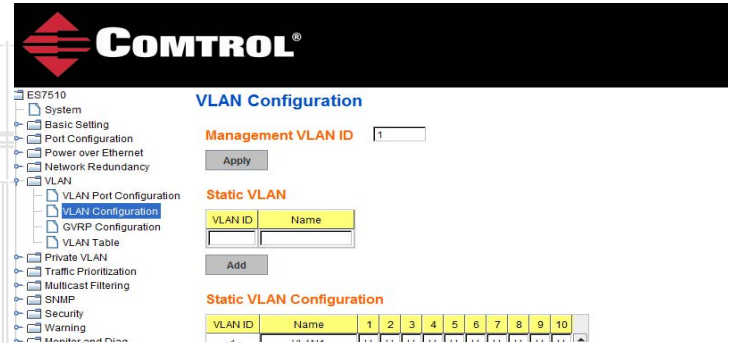
DIN rail Power over Ethernet Switch

Part Number: 32046-3

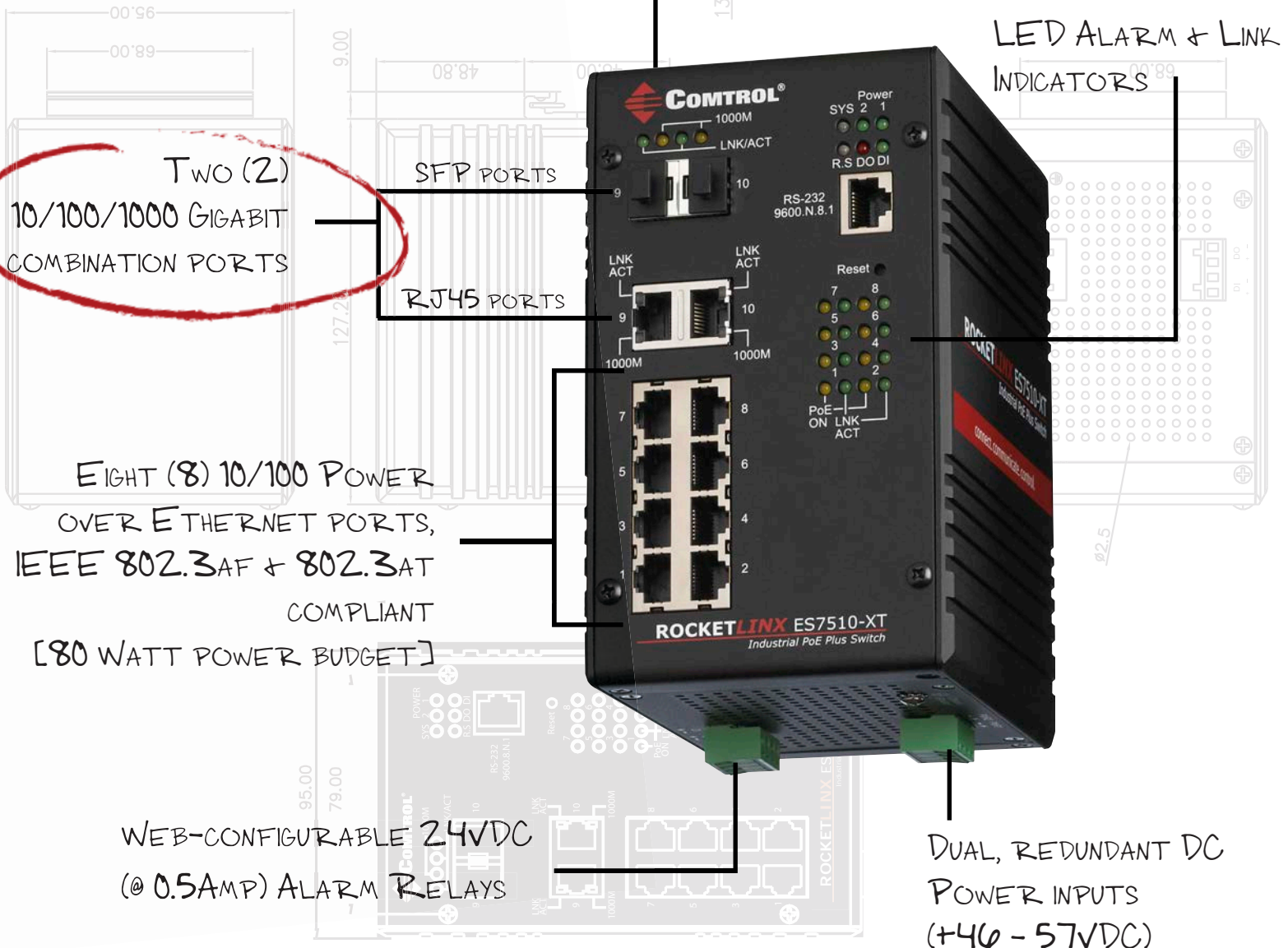
6.3" Tall x 3.7" Wide x 5.0" Deep



ONLINE WEB INTERFACE:  
POWER OVER ETHERNET MANAGEMENT



ONLINE WEB INTERFACE:  
LAYER 2+ NETWORK MANAGEMENT



## ROCKETLINX SPECIFICATIONS ::

### CONNECTOR INTERFACE

<b>Number of Ports</b>	
8 x 10/100BASE-TX with PoE Injector; 2 x 10/100/1000BASE-TX; 2 x 100/1000 Mbps SFP Fiber ports	
<b>Console Port</b>	
1 x RJ45 for system configuration	
<b>Digital Input/Output</b>	
4-Pin terminal block connector	
<b>Power Input</b>	4-pin terminal block

### HARDWARE AND MECHANICAL

<b>Enclosure</b>	
IP31 Grade Aluminum Metal Case	
<b>Installation Method</b>	DIN Rail Mount
<b>LED Indicators</b>	
Power, System Status, Ring Status, Relay Alarm, Ethernet port Link/Activity, PoE Status	
<b>Dimensions</b>	
5.0" x 6.3" x 3.7"	
12.7 x 16 x 9.4cm	
<b>Weight</b>	
2.85 lbs	
1.29 kg	

### NETWORK STANDARDS

<b>Standards</b>	
IEEE 802.3af PoE	
IEEE802.3at LLDP PoE Plus	
IEEE 802.3 10BASE-T	
IEEE 802.3u 100BASE-TX	
IEEE 802.3u 100BASE-FX	
IEEE 802.3ab 1000BASE-TX	
IEEE 802.3z Gigabit Fiber	
IEEE 1588 Precision Time Protocol	
IEEE 802.1Q VLAN & GRVP	
IEEE 802.1p CoS	
IEEE 802.1D-2004 RSTP	
IEEE 802.1s MSTP	
IEEE 802.3ad LACP	
IEEE 802.3x Flow Control and Back-Pressure	
IEEE 802.1x Port-Based Network Access Control	
IEEE 802.1AB LLDP	

### PERFORMANCE

<b>Switch Technology</b>	
32Gbps Switch Fabric Store and Forward Switch Technology	
<b>Monitoring</b>	
On-board thermal detection for system temperature	
<b>System Throughput</b>	
10Mbps	14,880pps
100Mbps	148,880pps
Gigabit Ethernet	1,488,100pps
<b>MAC Address</b>	
8K MAC Address Table	
<b>Packet Buffer Memory</b>	
1Mbits	
<b>Transfer Packet Size</b>	
64 to 1522 Bytes (includes double VLAN Tag)	
<b>Priority Queues per Port</b>	4

### PoE FEATURES

<b>PoE Modes</b>	
IEEE 802.3af; IEEE 802.3at (2-Event, LLDP, and Forced)	
<b>Number of PoE Injector Ports</b>	8
<b>Power Forwarding/ PoE Port (Max.)</b>	
15.4W (IEEE 802.3af); 30W (IEEE 802.3at)	
<b>Total Power Budget (Max.)</b>	80W at 74° C
<b>PSE Type</b>	Alternative A
<b>Standard PoE Voltage Output</b>	
IEEE 802.3af compliant	
IEEE 802.3at compliant	
50-57VDC	
<b>PoE Budget Control</b>	
User-configurable per port budget control with first plug-in priority	
<b>Smart PoE Powered Device Alive-Check</b>	
Real-time status monitor of PoE PD. Option to reset PoE PD	
<b>Real-time PoE Status on Web Interface</b>	Yes

<b>Power Limit Control</b>	Yes
<b>PoE Schedule Control</b>	
PoE ports are configurable as on/off by hourly/daily basis	

### SWITCH MANAGEMENT

<b>Configuration</b>	
Web (http and https), SSH, Telnet, SNMP, and console port . Command Line Interface similar to Cisco. NetVision for Windows for RocketLinx discovery, easy IP configuration, and uploading firmware.	
<b>Network Time Protocol</b>	
NTP with localized time-sync functions and IEEE 1588 Precision Time Protocol with Manual or NTP Client, Time Zone Settings, Daylight Savings Time	
<b>IP Security</b>	
IP address security to prevent unauthorized access	
<b>E-mail Alerts</b>	
E-mail event notification supporting up to 4 accounts with server authentication	
<b>System Log</b>	
Local or remote server with authentication	
<b>Event Alarm</b>	
Multiple event relay output for advanced device alarm control for system, port, and PoE events.	
<b>Firmware Upgrade</b>	
Local and TFTP using NetVision, web interface, or CLI	
<b>SNMP</b>	
v1/v2c/v3 Traps	
Up to 4 trap stations	
Manual configuration of the trap server IP address	
<b>SNMP MIB</b>	
MIB-II, Bridge MIB, Ethernet-Like MIB, VLAN MIB, IGMP MIB, Private MIB	
<b>RMON</b>	
Groups 1 , 2, 3, and 9 supported in the CLI	

### NETWORK FEATURES

<b>Port Configuration</b>	
Port link speed/mode, status, enable/disable	
<b>Port Mirroring</b>	
Online traffic monitoring on multiple selected ports	
<b>Port Trunk</b>	
Static Trunk and IEEE 802.3ad LACP	
Up to 5 Trunk Groups, 8-ports per Trunk	
<b>IGMP Snooping</b>	
IGMP Snooping for multi-cast filtering and IGMP query mode	
<b>Private VLAN</b>	
Directs client ports in isolated/community VLAN to promiscuous ports in primary VLAN	
<b>VLAN</b>	
IEEE 802.1Q: VLAN Tunneling supports up to 256x256, 2K GVRP entries	
<b>Class of Service (CoS)</b>	
802.1p, 4 Priority Queues/ Port	
<b>Traffic Prioritization</b>	
IEEE 802.1p CoS tag, queue scheduling 8, 4, 2, 1, weighted fair queuing scheme (WRR), IPv4 TOS/DiffServ based prioritization	
<b>Rate Control</b>	
Ingress/Egress Filtering for Broadcast-only, Broadcast/Multicast, Broadcast/Multicast/Unknown Unicast, or all packets	
<b>Precision Time Protocol</b>	
IEEE 1588 (PTP)	
<b>Network Time Protocol (NTP)</b>	
Yes	
<b>Port Security</b>	
Assign authorized MAC to specific port	
<b>IP Security</b>	
IP Security to prevent unauthorized access	
<b>IEEE 802.1x</b>	
Port-based Network Access Control	
<b>DHCP</b>	
DHCP Client/Server w/IP and MAC address binding and DHCP Agent (Option 82)	

### NETWORK REDUNDANCY FEATURES

<b>MSTP, RSTP, STP</b>	
IEEE 802.1s (MSTP), Rapid Spanning Tree Protocol (RSTP) IEEE 802.1D-2004, and Spanning Tree Protocol (STP) compatible.	
<b>Redundant Ring</b>	
Failure recovery within less than 5ms	
<b>Multiple Ring</b>	Yes
<b>Rapid Dual Homing</b>	
Multiple uplink paths to one or multiple upper switches	

### ELECTRICAL SPECIFICATIONS

<b>Power Input Voltage (Positive or Negative)</b>	
IEEE 802.3af	48VDC (48-57VDC)
IEEE 802.3at	53VDC (50-57VDC)
<b>Power Consumption</b>	
Without PD Load	15W
PoE Power Budget	80W @74°C
<b>Reverse Polarity Protection</b>	
Yes	
<b>Digital Input</b>	
High	11-30VDC
Low	0-10VDC
<b>Digital Output Relay Rating</b>	
1 Relay Output	0.5A @ 24VDC

### ENVIRONMENTAL SPECIFICATIONS

<b>Operating Temperature</b>	-40° to 74°C
<b>Storage Temperature</b>	-40° to 85°C
<b>Operating Humidity (non-condensing)</b>	0% to 95%
<b>MTBF (Mean Time Between Failures)</b>	446,108 Hrs

### EXPORT INFORMATION

<b>Packaged Shipping Weight</b>	4.1 lbs 1.86 kg
<b>Package Dimensions</b>	
11.3" x 5.5" x 9.1"	
28.7 x 13.97 x 23.11 cm	
<b>UPC Code</b>	7-56727-32046-3
<b>ECCN</b>	5A992
<b>Schedule B Number</b>	8517.62.0050

### REGULATORY APPROVALS

<b>Emissions</b>	
European Standard EN55022	
AS/NZS CISPR 22	
FCC Part 15 Subpart B	
Class A limit	
<b>Immunity</b>	
European Standard EN55024:	
IEC 1000-4-2/EN61000-4-2: ESD	
IEC 1000-4-3/EN61000-4-3: RF	
IEC 1000-4-4/EN61000-4-4: Fast Transient/ Burst	
IEC 1000-4-5/EN61000-4-5: Surge	
IEC 1000-4-6/EN61000-4-6: Conducted Disturbance	
IEC 1000-4-8/EN61000-4-8: Magnetic Field	
IEC 1000-4-11/EN61000-4-11: DIPS and Voltage Variations	
<b>Safety</b>	
IEC 60950/EN60950 (LISTED)	
CSA C22.2 No. 60950/UL60950 Third edition	
Vibration	IEC 61373
Shock	IEC 61373
NEMA TS2 compliant	
<b>Regulatory Approvals</b>	



## RECOMMENDED PRODUCTS ::

<b>1200054</b>	Power over Ethernet Splitter (24VDC, 24 Watts)
<b>1200048</b>	48VDC External Power Supply Adapter
<b>1200057</b>	SFP, Multi-Mode, 2KM, 100BASE-FX (Extended Temperature)
<b>1200058</b>	SFP, Single-Mode, 30KM, 100BASE-FX (Extended Temperature)



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

**Sales Support**  
+1.763.957.6000  
sales@comtrol.com

**Technical Support**  
+1.763.957.6000  
www.comtrol.com/support

**Email, FTP, and Web Support**  
info@comtrol.com  
ftp.comtrol.com  
www.comtrol.com