

Larch Networks acquired great knowledge and experience in developing Industrial/Rugged switches for customers.

### Product Highlights

- IP40 protected devices
- Work temperatures -40° - +85°
- Acceleration 50g up to 25ms
- POE supports IEEE 802.3AF/AT
- WEB management, CLI support
- 8 devices in stack support



The industrial Ethernet switches are designed for use in harsh environments and allow you to build cost-effective, reliable, secure industrial networks. Whether you require an unmanaged switch for a point to point link, a managed switch for redundancy, our extensive range of industrial Ethernet switches and knowledge of the various standards used in train, railway, energy, utilities and road applications means we have the ideal solution, regardless of the environment.

Industrial Switches provide continuous uptime, manageability, and operational efficiency. Industrial Switches are an excellent choice for industrial environments, including intelligent transportation systems, utilities, and smart cities. With full PoE+ power per PoE port, each switch offers the performance needed for today's power-hungry surveillance devices and WLAN access points. Up to 8 devices can be connected in stack using SFP interfaces to work as a single virtual router.

### SWITCH OPTIONS

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- PoE+/no PoE
- /SFP/SFP+
- PoE budget

# HARDWARE SPECIFICATION

Parameters	8x1G + 4xSFP/SFP+ POE+
Chipset.....	98DX226S
FLASH.....	128 Mb
RAM.....	512 Mb
Switching Capacity.....	128G
Packet Forwarding Rate.....	101.2Mpps
MTBF.....	100,000 hours
Power budget.....	240W.
POE ports.....	8xPOE+
Dimensions (W x D x H, mm)	161mm X 115mm X 53mm
Weight.....	0.9kG
LED Indicators .....	PWR, Link/ACT LED
Input voltage.....	Non-PoE DC12-58V; PoE DC48-58V.
Power consumption.....	Non-PoE<20W; PoE <260W
Heat dissipation.....	Natural heat dissipation
Copper Downlink ports 1Gb/s..	8
SFP/SFP+.....	4
Other Ports.....	Console, USB2.0
Power Interface.....	Phoenix terminal, redundant dual
Lightning Protection.....	Up to 4KV

# Marvell ROS SOFTWARE FEATURES

MAC-Based VLANs	ISATAP Tunneling
Voice VLAN	MAC-based Port Security (Locked Port)
Multicast TV VLAN	802.1x Port-Based Authentication
Triple Play, MVR	Time Based 802.1x
Q-in-Q, Selective Q-in-Q	Guest VLAN
Multicast Bridging Mode	Unauthenticated VLANs
Static Multicast Groups	802.1x - MAC Authentication
IGMP Snooping	Action-on-Violation
MLD Snooping	Flow Monitoring (sFlow)
Flooding of Unregistered Multicast Frames	RADIUS Remote Authorization and Authentication
Per-device Spanning Tree	RADIUS Accounting
Rapid Spanning Tree	TACACS+
Multiple Spanning Tree	DHCP Snooping
STP Root Guard	IP Source Address Guard
BPDU Filtering	ARP Inspection
STP BPDU Guard	DoS Attack Prevention
Per-device Loopback Detection (LBD)	SSL
LACP	SSH
LAG Balancing	QoS Across the Stack
Static and Dynamics (DHCP/BootP) IP assignment	QoS statistics
DNS Client	Egress Rate Limiting (Shaping)
IPv6 Host	Ingress Rate Limiting
Dual Stack	Packet Storm Control
StackSupport Multiple Super Ring - 50 ms	Dynamic VLAN Assignment
Support Rapid Dual Homing – RSTP	
Support LLDP for recovery network structure	
Support SNMP, Web, Telnet for remote Management	
Support , Port authentication, DHCP, Access controlled 802.1x (IP security for authentication)	
Support sent notification through SNMP, IEEE 802.1p QoS with CoS	