

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
- ETH/SFP/SFP+
- PoE budget

# HARDWARE SPECIFICATION

Parameters	8x1G + 2xETH POE+
Chipset.....	98DX225S
FLASH.....	128 Mb
RAM.....	512 Mb
Switching Capacity.....	36G
Packet Forwarding Rate.....	26.78Mpps
MTBF.....	100,000 hours
Power budget.....	240W
POE ports.....	8xPOE+
Dimensions (W x D x H, mm)	143mm X 104mm X 48mm
Weight.....	0.6kG
LED Indicators .....	PWR, Link/ACT LED
Input voltage.....	Non-PoE DC12-58V; PoE DC48-58V.
Power consumption.....	Non-PoE<10W; PoE <250W
Heat dissipation.....	Natural heat dissipation
Copper Downlink ports 1Gb/s... 8	
Copper Uplink ports 1Gb/s..... 2	
Other Ports.....	Console, USB2.0
Power Interface.....	Phoenix terminal, redundant dual power supply
Lightning Protection.....	Up to 4KV

## Marvell ROS SOFTWARE FEATURES

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