



# 10-GIGABIT MANAGED SWITCH LN-3316XF-2Q

10-Gigabit Managed Switches is ideal Combination of Features and Affordability. To stay ahead in a competitive marketplace, small businesses need to make every dollar count.



## Product Highlights

- 10GbE SFP+ or RJ45 Ports & QSFP uplinks
- Non-Blocking Switching Capability
- Two Redundant Power Supplies

That means getting the most value from your technology investments, but it also means making sure that employees have fast, reliable access to the business tools and information they need. Every minute an employee waits for an unresponsive application – and every minute your network is down – has an impact on your bottom line. The importance of maintaining a strong and dependable business network only grows as your business adds more employees, applications, and network complexity.

Switches are designed for Carrier/Enterprise

Aggregation and small Data Center Top of Rack. 10-Gigabit Managed Switches are the ideal solution for traditional three tier Aggregation or Core and folded Clos architectures, serving with a 2:1 oversubscription. The switches are packed with features that bring high availability, comprehensive security, robust multicast control, and advance QoS to network aggregation, while maintaining simple management. The switch also supports the most advance IPv6 management, IPv6 security, and IPv6 multicast control in accordance with the growth of IPv6 deployment.

## SWITCH FEATURE

- Service Monitoring and Management
- Robust Multicast Control
- Virtual Private Networks
- IPv6 Support

## NOS OPTION

- OpenSource NOS
  - Marvell Total Solution
  - ROS Layer3 NOS
- LarchOS – full-featured telecom/datacenter grade management system

# HARDWARE SPECIFICATION

**Function/parameter**                      **16x10G SFP/16x10GbE +2x 40G QSFP+**

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Marvell Chipset.....Drake  
FLASH.....1 Gb  
RAM.....2 Gb  
Switching Capacity.....480 Gbps  
FANs.....3  
Case .....440 x280 x 44 mm  
10GbE RJ45 Ports.....16 SFP+ or 16 Copper 10G  
Uplink ports.....2 QSFP 40GbpE ports  
Other Ports.....Console, OOB, USB2.0

## LARCH OS SOFTWARE FEATURES

### Layer 2 Feature list

802.1D Spanning Tree Protocol/802.1 w Rapid Spanning Tree / 802.1 s Multiple Spanning Tree / RPVST+  
VLAN's with QinQ  
802.1Q VLAN's / Trunking support  
Private VLAN's  
802.1 AB Link Layer Discovery protocol  
802.3x Flow control  
802.1x Authentication  
802.3ad Link aggregation group support  
Multi-chassis Link aggregation group support  
CFM 802.1ag  
Y.1731  
VxLAN support with EVPN  
TRILL  
QCN, ETS, PFC

### Layer 3 Feature list

Static IPv4/IPv6  
OSPFv2/v3, ISIS (v4/v6), MP-BGP, RIPv2  
Multi-path ECMP  
VRF Lite – IPv4  
BFD for IPv4, IPv6, Protocol support for OSPF, BGP in Global and VRF space  
IGMP v2/v3  
IGMP Snooping, querier, proxy report suppression  
MLD  
MSDP  
PIM-SM, PIM-SSM, PIM-DM (IPv4/IPv6)  
VRRP

### MPLS/MPLS-TP Feature list

MPLS Architecture Support  
LDP, RSVP support  
RSVP Traffic Engineering support  
RSVP FRR with 1:1 and 1:n support  
Pseudowire setup and maintenance using LDP  
Pseudowire setup and maintenance using BGP  
EVPN support over VPLS  
MPLS L3VPN for IPv4/IPv6  
Differentiated Services over MPLS  
BFD for Pseudowire VCCV  
OAM for MPLS based transport networks, proactive connectivity check, RDI  
MPLS TP, Transport Profile Support  
MVPN Support

### Management, Security and Qos Features

Access control list  
RADIUS & TACACS+ support  
Role based access control  
Modular & Hierarchical QOS for Policing, Marking and Shaping  
Flexible flow classification and action rule-set  
NETCONF support  
Ansible Integration  
Sflow support  
DCHP Relay/Client  
Syslog  
SNMP Support  
Industry standard CLI

