

1RU 1.08Tbps Data Center SWITCH

LN-3548X-6Z

LN-3548X-6Z is High performance, multi service aggregation or TOR (Top-of-Rack) switch for telco access, security and cloud, with 6 x 100G/40G (QSFP28) + 48 x 10G/1GSFP+) interfaces.



Product Highlights

- 1RU, 19-inch rack mountable design
- Cut-through with ultra-low-latency
- 48 x 10 Gbps (SFP+) ports and 6 x 100 Gbps (QSFP28) ports
- Up to 1.08 Tbps of switching performance
- Open automated configuration and zero-touch provisioning capabilities
- Simplify management of network environments
- Interface flexibility
- Power efficiency

LN-3548X-6Z switch is an advanced best-in-class, open-source network platform that line-rate L2/ L3 up to 1.08 Tbps switching performance of Marvell Prestera is paired with multi service feature. It is well suited for enterprise access/aggregation, high bandwidth interconnection for video distribution and security. It can also be used as the cost effective ToR switch for private cloud.

LN-3548X-6Z is Compact 1RU standard based open architecture, with redundant power supply & redundant fan modules

The LN-3548Y-6Z switch can be deployed as a top- of- rack (ToR) or leaf switch supporting 10GbE to servers with 100GbE uplinks, each 100G QSFP28 port can be configured 40G as well as 4x 25GbE or 4x 10GbE via breakout cables.



HARDWARE SPECIFICATION

Function/parameter

48x10G +6x100G

Switching Performance	Switch ASIC	Marvell Prestera DX8548
	Ports	6 x 100G/40G（QSFP28）+ 48 x 10G/1G（SFP+）
	Capacity	1.08 Tbps
	Packet Buffer	6MB
CPU	CPU	Marvell OcteonTX2 CN9130
	Memory	4GB DDR4
	SSD	32GB eMMC, Optional M.2 SATA slot
Management Port	USB	1 x USB2.0
	Serial Console	1 x RJ45
	Management Port	1 x RJ45 Ethernet 1GBase-T management port
Power	PSU Input	110V~240V(AC), 36V~72V(DC)
	PSU Output	200W/200W (AC/DC)
	Max. Power Consumption	130W
Physical and Environmental	Dimensions	HxWxD 440/44/470 mm
	Rack Space	1RU
	Fan	2+1, hot pluggable
	PSU	1+1 hot pluggable
	Operating Temperature	0°C to 45°C
	Operating Humidity	5% to 90% (non-condensing)
Warranty	Warranty	1 year
Approvals	Certificate	CCC/CE

Marvell ROS SOFTWARE FEATURES

MAC-Based VLANs
Voice VLAN
Multicast TV VLAN
Triple Play, MVR
Q-in-Q, Selective Q-in-Q
Multicast Bridging Mode
Static Multicast Groups
IGMP Snooping
MLD Snooping
Flooding of Unregistered Multicast Frames
Per-device Spanning Tree
Rapid Spanning Tree
Multiple Spanning Tree
STP Root Guard
BPDU Filtering
STP BPDU Guard
Per-device Loopback Detection (LBD)
LACP
LAG Balancing
Static and Dynamics (DHCP/BootP) IP assignment
DNS Client
IPv6 Host
Dual Stack

ISATAP Tunneling
MAC-based Port Security (Locked Port)
802.1x Port-Based Authentication
Time Based 802.1x
Guest VLAN
Unauthenticated VLANs
802.1x - MAC Authentication
Action-on-Violation
Flow Monitoring (sFlow)
RADIUS Remote Authorization and Authentication
RADIUS Accounting
TACACS+
DHCP Snooping
IP Source Address Guard
ARP Inspection
DoS Attack Prevention
SSL
SSH
QoS Across the Stack
QoS statistics
Egress Rate Limiting (Shaping)
Ingress Rate Limiting
Packet Storm Control
Dynamic VLAN Assignment

