

As the internet data are growing at unprecedented rate due to advancements of 5G, IoT and always connected device, the capacity demand for telecom network is soaring. Locating at the edge of the network, the cell site gateway is high volume deployment product and an ideal location for mobile operators for high-volume cell site and aggregation routing applications.

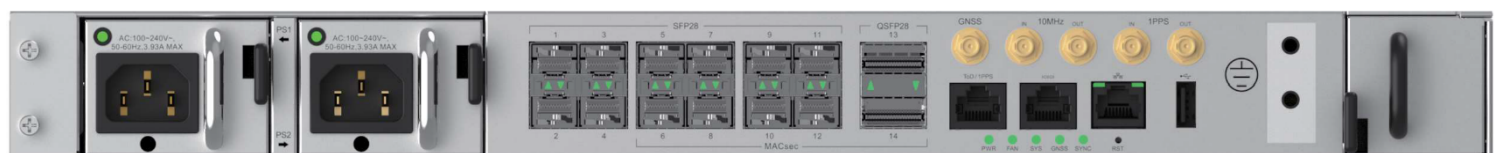


Product Highlights

- Temperature hardened design for harsh environments
- Precision Timing and Synchronization (IEEE1588v2 & SyncE)
- Compact 1RU design at 250mm depth
- High availability in redundant design: 1+1 PSU Module, and 4+1 Fan Tray
- Serviceability: all I/O and replaceable FRUs are front access for easy maintenance
- Hardware support MACsec IEEE 802.1AE for strong cryptographic protection at Layer 2 data transmission
- Hardware support TSN IEEE 802.1CM Profile B Frame Preemption
- Hardware support SRv6

Open and disaggregated hardware and software solution can reduce CSPs' costs, increase choice, and speed up the pace of innovation to meet the dynamic of market demands. LN-3612Y-2ZT is engineered with the latest Marvell Prestera™ Family with diverse connectivity, timing synchronization capability, and temperature hardened design all integrating into a compact 1RU design for telecommunications network.

LN-3612Y-2ZT is an open hardware design that support the Open Network Install Environment (ONIE) that provides options of installation of alternate



APPLICATIONS

- Mobile Backhaul Router
- X-Haul Ethernet Transport Switch in Private Networks
- Carrier Access Switch
- Hardware support SRv6

HARDWARE SPECIFICATION

Function/parameter	Value
Interfaces	12 x 1/10/25G SFP28 ports (multi-rate) 2 x 40/100G QSFP28 ports Or 8 x 25G (Break out cable) 1 x RJ45 Mgmt port 1 x RJ45 Console port 1 x USB2.0 Type A Mgmt port
Timing Interfaces	1 x ToD Input/Output 1 x 10MHz Input/Output 1 x 1pps Input/Output
GNSS	1 x GNSS Antenna Receiver
CPU	Marvell CN9130 4C/1.6GHz
Switch Silicon	Marvell 98DX7320M
Memory	16GB DDR4 w/ ECC
Storage	32GB eMMC 32GB M.2 SSD(optional)
Hardware	Performance
Forwarding Bandwidth	500 Gbps
MACsec Forwarding	400 Gbps (16x 25G)
OAM Support	2K
Buffer Size	6MB
Hardware Timing Capability	IITU-T Synchronous Ethernet (SyncE) G.8262 IEEE 1588v2 T-TC,T-BC Class C ITU-T G.8275.1
TSN	IEEE 802.1CM TSN for Fronthaul Profile B Frame Preemption
L1/L2 Cache sizes	L1 32KB, w/ECC L2 512 KB, w/ECC
SRv6	Yes
TCAM	Multiple TCAM / TCAM keys size ranging from 20B to 80B
QoS Support	Yes
VxLAN	Support
Class C clock accuracy	Yes
AC Input	100VAC ~ 240VAC , 50 ~ 60Hz
DC Input	-48VDC~-60VDC
Power	140 Watts (Typical)
Consumption	170 Watts (Max) Redundant 1+ 1 PSU modules
Environment Conditions	
Operating	Operating temperature: -40°C to 65°C (-40°F to 149°F) Operating humidity: 5% to 95% (RH), noncondensing
Non-Operating	Storage temperature: -40°C to 70°C (-40°F to 158°F) Storage humidity: 5% to 95% (RH), non-condensing
Physical	
Cooling	Left-to-Right, 4+1 Fans Tray

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
	Dynamic VLAN Assignment