



# L2+/L3 Lite Gigabit Ethernet Switch

## LN-2624G-4XGF/LN-2624GP-4XGF

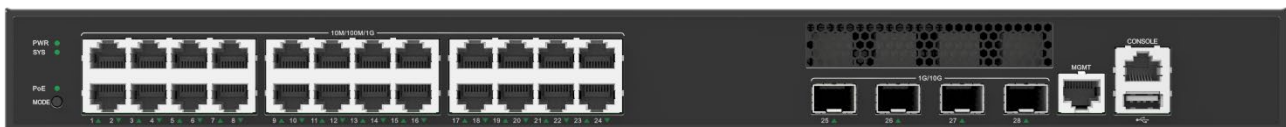
The **LN-2624G-4XGF** switch is a Gigabit Ethernet access switch with four 10G SFP+ uplinks. The switch is ideal for Internet Service Providers (ISPs) and Multiple System Operators (MSOs) wanting to provide home users with triple-play services with up to a Gigabit of bandwidth.



### Product Highlights

- Best price-performance Gigabit Ethernet access switch with 10G uplinks
- Low power consumption with fanless and noiseless design
- ITU-T G.8032 ERPS L2 Ring protection with
- Comprehensive and field proven software features for ISP/ Carrier to provide broadband access, IPTV services
- L2+/ Lite L3 feature upgrades the L2 switch with routing functionality
- Enhanced Security, IPv6 and Multicast features
- Simple management (CLI, SNMP, Web)
- Complete Private MIB to fully control and monitor the switch via customer's EMS

It is also an ideal Gigabit access switch for SMB, enterprise, and campus networks. The **LN-2624GP-4XGF** is a PoE switch which can provide up to 30 Watts to Power Devices such as Wireless Access Point, VoIP Phone, Surveillance camera, IoT devices etc over Cat 5 UTP cable eliminate the need for individual power source. The LN-2624G-4XGF/LN-2624GP-4XGF is packed with features that bring high availability, comprehensive security, robust multicast control, and advance QoS to the network edge, 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.



# HARDWARE SPECIFICATION

## Function/parameter 24 RJ-45 10/100/1000BASE-T Ports + 4 SFP+ 10 Gigabit Uplink Ports

<b>Switching Performance</b>	Switch ASIC	LN-2624G-4XGF	LN-2624GP-4XGF
	Ports	24 RJ-45 10/100/1000BASE-T Ports + 4 SFP+ 10 Gigabit Uplink Ports	24 RJ-45 10/100/1000BASE-T Ports + 4 SFP+ 10 Gigabit Uplink Ports
	Capacity	128 Gbps	128 Gbps
	Forwarding Rate	95 Mpps	95 Mpps
	MAC Address Table	16 K	16 K
	Jumbo Frames	10 KB	10 KB
	Auto-negotiation, Auto-MDI/MDIX	Yes	Yes
<b>CPU</b>	CPU	Embedded Single-Core ARM - v. 8.2 Cortex-A55 1.2 GHz	Embedded Single-Core ARM - v. 8.2 Cortex-A55 1.2 GHz
	Memory	512 MB DDR4 +	512 GB DDR4
	Storage	SPI 32MB + 256 MB NAND Flash Memory	SPI 32MB + 256 MB NAND Flash Memory
<b>Management Port</b>	USB	1 x USB2.0	1 x USB2.0
	Serial Console	1 x RJ45	1 x RJ45
<b>Power</b>	PSU	1x36W Open frame PSU 90-264V 47/63Hz	1x450W Open frame PSU 90-264V 47/63Hz
	Max. Power Consumption	TBD	TBD
	PoE		24xIEEE 802.3at@30W
	PoE Budget		370 W
<b>Physical and Environmental</b>	Dimensions	WxDxH 440/220/44 mm	WxDxH 440/220/44 mm
	Fan	NO	2
	PSU	1	1
	Operating Temperature	-5 -45°C	-5 -45°C
	Storage Temperature	-40 -70°C	-40 -70°C
	Operating Humidity	5% to 95% (non-condensing)	5% to 95% (non-condensing)
	Storage Humidity	5% to 95% (non-condensing)	5% to 95% (non-condensing)
<b>Warranty</b>	Warranty	1 year	1 year
<b>Approvals</b>	Certificate	FCC Class A/CE/Safety Compliance: CB/Safety Compliance: UL	FCC Class A/CE/Safety Compliance: CB/Safety Compliance: UL

# 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
- I SATAP 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

# SONIC OS SOFTWARE FEATURES

## Layer 2/3 Feature list

- BGP / BGP MP
- BGP/Neighbor-down fib-accelerate
- BGP-EVPN support (type 5), (related HLD Fpmsyncd,Vxlanmgr,template)
- ECMP
- LAG
- ACL permit/deny, IPv6 ACL
- LLDP
- DHCP
- VLAN
- CoPP
- IPv6
- VLUN Trunk
- FRR
- Priority Flow Control
- Asymmetric PFC
- PFC Watermark
- DHCP Relay Agent
- Tunnel Decap
- LACP Fallback
- MTU Setting
- Vlan Trunk
- Static Port breakout
- Dynamic ACL Upgrade
- MAC Aging
- L3 RIF counter support
- Configurable drop counters

## Monitoring

- SNMP
- Syslog
- EverFlow
- OOM
- TCPDump
- Critical Recourse Monitor
- Dtel
- Mirroring
- Egress mirroring and
- ACL action support check via SAI
- Streaming Telemetry

- Everflow enhancement
- sFlow
- HW resource monito

## QoS

- RDMA
- ECN
- PFC WD
- WRED
- COS
- Watermark

## System

- NTP
- ONIE Install
- CLI
- TACACS+
- ConfigDB
- SONiC to SONiC upgrade
- Multiple Images support
- gRPC
- Sensor transceiver monitoring
- LLDP extended MIB: lldpremtable, lldplocporttable, lldpremanaddrtable, lldplocmanaddrtable, lldplocporttable, lldpLocalSystemData
- Warm Reboot
- Incremental Config (IP, LAG, Port shut/un-shut)
- Routing Stack Graceful Restart
- Mgmt VRF
- Management Framework
- Multi-DB optimization-Part 1
- Sub-port support

## Virtualization

- L3 VxLAN
- VRF