

**6.4 Tbps****32 × 100GE QSFP28**

## Overview

The **AES6201** delivers high-throughput, low-latency switching optimized for spine-layer deployments in modern data centers. Its space-efficient 1RU form factor supports line-rate Layer 2 and Layer 3 switching across 32 × 100GE QSFP28 ports.

Pre-loaded with the Open Network Install Environment (ONIE), the AES6201 enables flexible installation of industry-standard Network Operating Systems, including both open-source platforms such as SONiC and commercial NOS solutions for enterprise-grade functionality.

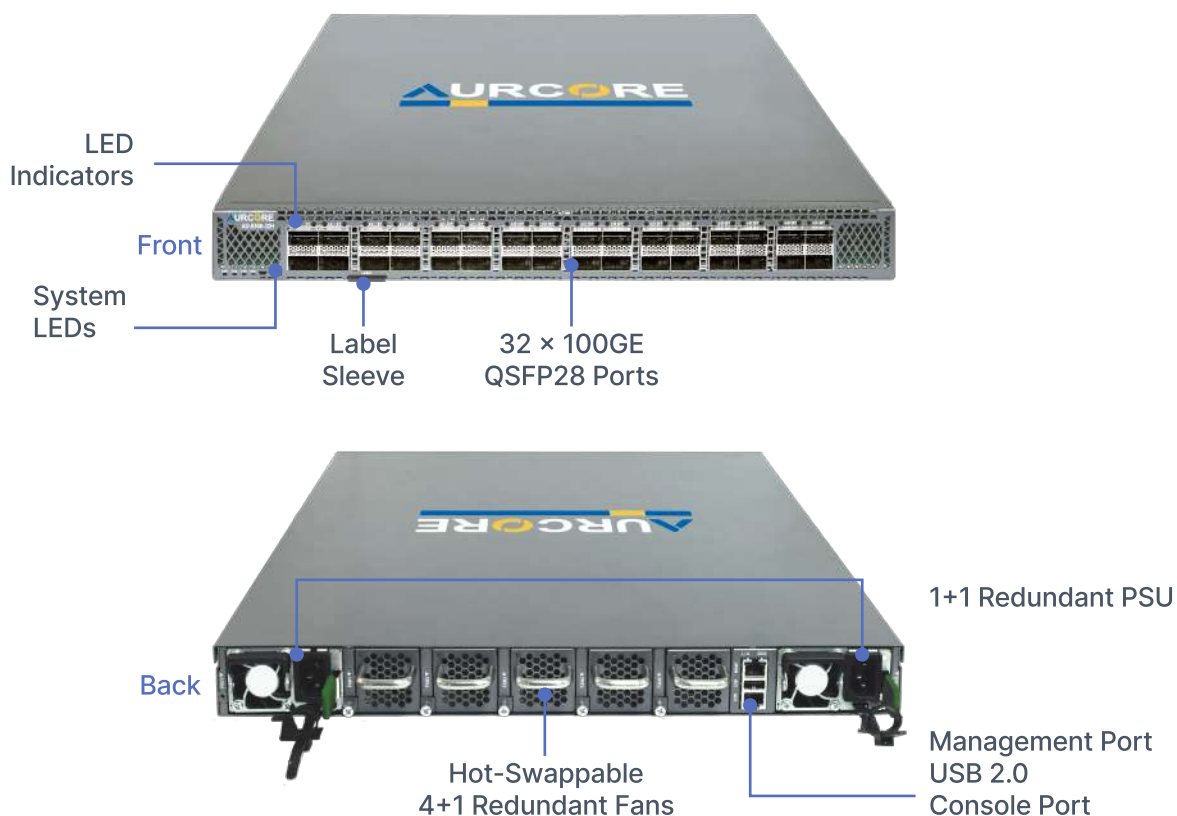


## Product Highlights

- Optimized for deployment as Top-of-Rack switch supporting 10/25GE to servers, with 40/100GE uplinks.
- Deploy as spine switch supporting 40 or 100GE ToR and spine interconnects.
- 32 × 100GE QSFP28 switch ports, each supporting 1 × 100GE or 1 × 40GE, or via breakout cables, 4 × 25GE or 4 × 10GE.
- Layer 2 or Layer 3 forwarding at 6.4 Tbps.
- Supports hot/cold aisle with front-to-back and back-to-front airflow SKUs.
- All ports on front; PSUs and fans accessible from rear
- Hot-swappable, load-sharing, redundant AC or DC PSUs.
- 4+1 redundant, hot-swappable fan modules.
- VXLAN, EVPN, MLAG support and advanced routing protocols including BGP, OSPF, IS-IS, and MPLS.
- Hardware switch pre-loaded with Open Network Install Environment (ONIE) for automated loading of compatible open source and commercial NOS offerings.

# Hardware Specifications

|                        |   |
|------------------------|---|
| Model                  | AES6201   |
| Interface              | 32 × 100 GE QSFP28 Slots  |
| Management Port        | 1 x MGMT Port, 1 x Console Port, 1 x USB Port, (USB 2.0)  |
| Packet Forwarding Rate | 2800Mpps  |
| Switching Capacity     | 6.4Tbps   |
| Dimension(LxWxH)       | 18.50"(L) x 17.32"(W) x 1.73(H) / 1U height   |
| Full Weight            | 11kg / 24.25 lbs.   |
| Fan                    | 5 hot-swappable fan modules for front/rear ventilation  |
| Power Supply           | 2 (1+1 Redundancy), Hot-swappable   |
| AC Input               | Rated voltage range: 100~240V<br>Maximum voltage range: 90~264V<br>Frequency: 50~60Hz<br>Rated input current: 5~10A |
| DC Input               | Input voltage range: 180~310V<br>Input current range: 5A  |
| Power Consumption      | Static (Dual AC): 173W; Maximum (Dual AC): 512W   |



# Software Specifications

## DATA CENTER FEATURES

- **Overlay Network:** VxLAN, BGP-EVPN
- **Architecture:** M-LAG
- **High-performance Networking:** RoCE v2, PFC, ECN

## LAYER 2 PROTOCOLS

- **VLAN:** GVRP, PVLAN, Voice VLAN, VLAN Translation, Q-in-Q, Subnet-based VLANs, Protocol-based VLANs, MAC-based VLAN
- **MAC Address:** Dynamic/static/black hole MAC address table entries; auto learning/aging, learning restrictions, source MAC filtering

## LAYER 3 PROTOCOLS (IPv4/IPv6 DUAL STACK)

- **IPv4 Features:** Static routes, Default Route, RIP V1/V2, OSPF V2, ISIS, BGP-4, ECMP, VRRP
- **IPv6 Features:** Static routes, RIPng, OSPFv3, BGP4+, Equivalent Routing, Manual tunneling, Automatic Tunneling, ISATAP tunneling, IPv4 over IPv6 tunneling
- **IPv6 Management and Services:** ND, Web/SSL, NTP/SNTP, Telnet/SSH, Ping/Trace-route, FTP/TFTP, RADIUS/TACACS+, SNMP over IPv6

## MULTICAST

- IGMP Snooping v1/v2/v3, MLD Snooping v1/v2, PIM-DM, PIM-SM, PIM-SSM, multicast VLAN, multicast traffic suppression

## QoS FUNCTION

- **Rate Limiting:** Port-based (incoming/outgoing), Stream-based rate limiting
- **Class Of Service:** Based on port, source-destination MAC, source-destination IP, 802.1p, CoS, DSCP, IP priority, Source-destination L4 Port
- **Prioritization Algorithm:** WRR, SP, DSCP & CoS mapping, Congestion avoidance mechanisms (WRED, tail drop)

## SECURITY

- **Access Control:** Port Security, Port Isolation, IP source protection, Dynamic ARP protection, DHCP Snooping, DHCP Relay, IEEE802.1x AAA, ACL, User hierarchy, RADIUS/TACACS+, RADIUS authentication (RFC2138), SSH v2.0,
- **Data Protection:** Broadcast storm suppression, Illegal packet detection, DDoS Attack Prevention, HTTPs and SSL

## RELIABILITY

- **Link Protection:** STP, RSTP, MSTP, Stacking, BPDU Guard, STP Root Guard, Loop Protection/Detection, BFD Detection, Ethernet OAM, ULDP, ERPS fast ring network protection, MRPP fast link switching

## MPLS

- MPLS L2VPN, MPLS L3VPN, VPLS, VPWS, LDP

## NETWORK VISUALIZATION

- sFlow Sampling (end-to-end traffic visualization with hardware capability)
- GRE Tunnel, IPv6 Tunnel

## MANAGEMENT & MAINTENANCE

- **Interfaces:** Console port, MGMT port, USB port
- **Protocols:** SNMPv1/v2c/v3, RMON (1,2,3 & 9), TFTP (file upload/download)
- **Management Modes:** CLI command line, Web NMS, TELNET
- **Functions:** Firmware Upgrade, Configuration Export/Import, DHCP Client (Option 82/66/67), Event/Error Logs (System Log), Management Access Control, Port Mirror, LLDP (IEEE802.1AB), LLDP-MED, DNS Client, Trace-route, Ping, DDMI, NTP/ SNTP (RFC2030)

