Delta Open Networking Platform AGC032

Designed as high performance and high connectivity super spine switch, AGC032 provides high-density, low-latency 32 x 400GbE QSFP-DD ports connectivity, all in a resilient 1RU form factor making it ideal for NextGen High-Performance Cloud Data Center and Service Provider deployments

The AGC032 is built with state of the art silicon and incorporates advanced power management features, user-defined oversubscription of ports and configured with 32 x 400GbE QSFP-DD ports. Each port supporting 1 x 400 GbE or 1 x 100 GbE, or supporting 4 x 100 GbE or 4 x 25 GbE port configuration via breakout cables. The device is pre-loaded with ONIE (Open Network Install Environment) ready to support the customer's choice of modular extensible Network Operating Systems (NOS) benefiting users to achieve future proof SDN/NFV capable solutions, network scalability, flexibility, and cost-effectiveness.

High Bandwidth

As bandwidth-intensive applications and virtualization continues to drive link utilization. 100GbE is insufficient and networks are demanding higher connectivity for high-performance data center interconnection. With 32 ports 400GbE 12.8Tbps of switching fabric with ultra low latency, AGC032 is designed to address performance, capacity, per port power efficiency, and service requirements for NextGen Data center and cloud computing environments

High Availability

The AGC032 has two slots for hot-swappable PSUs (Power Supply Units) and 5 fan trays. QSPF-DD Transceiver modules can be easily removed and replaced with no interruption to the network. These hot-swappable modules guarantee the continued delivery of essential services.

Key Features

- 1RU high-density 32 ports 400GbE QSFP-DD Spine

- Up to 12.8Tbps of switching I/O bandwidth and available non-blocking wire-speed switching fabric

- Support for open automated configuration and zero-touch provisioning capabilities simplify the management of network environments.
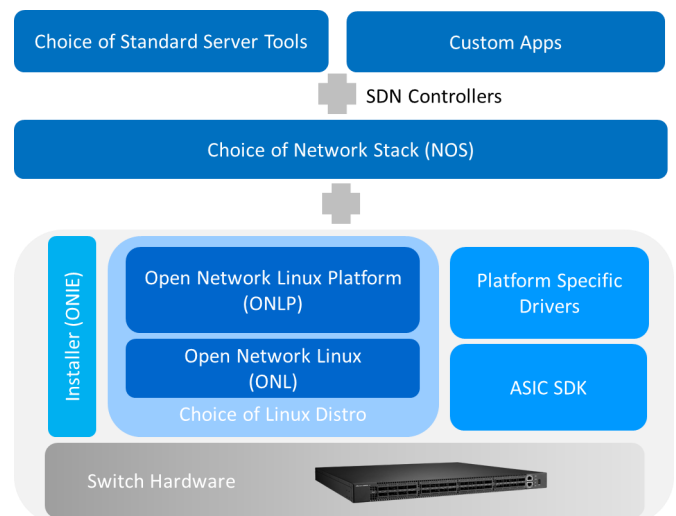
Applications

- Cloud Data Center: Spine, Leaf,/ToR

- Carrier/Service Provider: Core Switching

Product Specifications

Views

Front View

Rear View

Features

Ports
32 x400GbE QSFP-DD ports
2 x10GbE SFP+ ports
1 x RJ45 Console port
1 x RJ45 100/1000 BASE-T OOB
     Management port
1 x USB port

Key Parts
Switching Chip: BCM56980
     Tomahawk 3
CPU Board:
    Intel Broadwell-DE D1527
    16GBx2 DDR4
    64GBx2 m.2 SSD
    32MB SPI-Flash (Boot)
BMC: AST2520

Power Supplies & Fans
2 slots for Hot-swappable PSUs and
1+1 redundancy support
5 slots for Hot-swappable FANs and
4+1 redundancy support

Applicable worldwide ranging PSU
AC to DC: 100 ~ 240 VAC 50/60 Hz
DC to DC: -48 ~ -72 VDC nominal

Airflow
Front-to-Back

Physical and Environmental
Dimension (WxDxH): 438.5x500x43mm
Weight: 8.3kg

Operating Temperature: 0 to 45°C
Operating Relative Humidity:
10 to 90% RH noncondensing
Storage Temperature: -20 to 70℃
Storage Humidity: 5 to 95% RH
Operating altitude: 0 to 3000m

Open Software Environment
ONIE preloaded
Diagnostics software preloaded
Compatible with ONL

Performance (Subject to NOS)
Integrated packet buffer memory 64MB
MAC Address: Max 288K
Switching capacity: 12.8Tbps switching
bandwidth (25.6Tbps Full Duplex)
IPv4 host table size Max 168K
IPv6 host table size Max 100K
Jumbo Frame: Up to 12Kbyte
Forwarding rate: 19 Bpps
LPM Routes Support: without uRPF IPv4
324K; IPv6/64 168K
VLAN IDs: 4K

Regulatory Compliance
Safety: EN 60950-1, UL 60950-1,
CAN/CSA C22.2 No. 60950-1-07,
IEC 60950-1

Emissions: AS/NZS CISPR 32:
Class A, ICES-003, Issue Class A,
EN55032: Class A, VCCI Class A,
FCC CFR 47 Part 15, Subpart B
Class A

Immunity: EN55024, EN 61000-3-2,
EN 61000-3-3, EN 61000-4-2, EN
61000-4-3, EN 61000-4-4, EN
61000-4-5, EN 61000-4-6, EN61000
-4-8, EN61000-4-11

EU RoHS Compliant

Supported Optics & Cables

Interface Type	SFP+ ports
10GBASE-SR, 300m	
10GBASE-LRM, 220m	
10GBASE-LR4, 2km	
10GBASE AOC, 3m	
10GBASE DAC, 1m, 3m	

Interface Type	QSFP-DD ports
400GBASE DAC, 2.5m	

Ordering Information
AGC032

Warranty
agema.deltaww.com
for the warranty terms and
condition

About Delta

Delta, founded in 1971, is a global leader in power and thermal management solutions and a major player in several product segments such as industrial automation, displays, and networking. Its mission statement, "To provide innovative, clean and energy-efficient solutions for a better tomorrow," focuses on addressing key environmental issues such as global climate change. As an energy-saving solutions provider with core competencies in power electronics and innovative research and development, Delta's business domains include Power Electronics, Automation, and Infrastructure. Delta serves customers through its sales offices, R&D centers and manufacturing facilities spread over close to 200 locations across 5 continents.

Throughout its history, Delta is a frequent recipient of international awards and related recognition for innovation, design, and corporate social responsibility. Since 2011, Delta has been selected each year for the prestigious Dow Jones Sustainability™ World Index (DJSI World). In 2019, we were also included in the DJSI Emerging Markets Index for the 7th consecutive year. Delta was ranked by CDP (formerly the Climate Disclosure Project) at the Climate Change Leadership Level.

More product information, please visit agema.deltaww.com or mail to AgemaSales@deltaww.com
To learn more about Delta, please visit www.deltaww.com