



Delta Open Networking Platform AGC7648A

Designed for deep buffered Data Center and granular traffic management Carrier applications, AGC7648A bare-metal switch provides high-density low latency 10GbE SFP+ connectivity for downlinks while also providing 6x100GbE QSFP28 uplinks all in a resilient package making it ideal for Service Provider (CORD, Provider Edge, Mobile Backhaul) and Data Center TOR/Spine/DCI deployment.

The AGC7648A is configured with 48 x 10GbE SFP+ ports and 6 high bandwidth 100GbE QSFP28 Uplinks. 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 costeffectiveness. It delivers 800Gbps of switching fabric with integrated deep buffers and provides 1+1 resilient power in a very compact 1RU chassis.

High Bandwidth

As bandwidth-intensive applications such as Web 2.0, virtualization, High-Performance Computing (HPC), and Network Attached Storage (NAS) continue to proliferate within data centers, 100GbE provides a cost-effective way to increase throughput and seamlessly deliver customer service level agreements.

High Availability

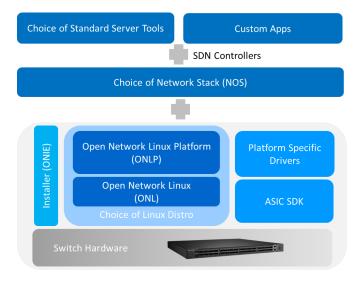
The AGC7648A has two slots for hot-swappable PSUs (Power Supply Units) and 4 fan trays. QSFP28 Transceiver modules can be easily removed and replaced with no interruption to the network. These hot-swappable modules guarantee the continued delivery of essential services.

Rich Feature Set

To fulfill the requirement of telecom networks, AGC7648A offers large internal table size, deep packet buffer and option of external T-CAM memory enabling future-proof new features or protocols.

Key Features

- 1RU high-density 48x10GE + 6x40/100GE.
- Up to 800Gb/s of switching I/O bandwidth with deep buffers to support lossless network applications.
- Support for open automated configuration and zerotouch provisioning capabilities simplify the management of network environments.



Applications

- Data Center ToR(Top-of-Rack) and EoR(End-of-Row)
- Carrier Access/Aggregation, Packet Transport,

Product Specifications

Views





Features

Ports TTT

48 x1/10GbE SFP+ ports 6x40/100GbE QSFP28 ports 1 x RJ45 Console port 1 x RJ45 100/1000BASE-T OOB Management port

1 x USB port

Key Parts 🔲 💷

Switching Chip: BCM88375 Qumran CPU Board: Intel Rangeley C2538

8GB x1 ĎDR3 32GB m.2 SSD 16MB SPI-Flash (Boot)

Packet Buffer:

4GB GDDR5 T-CAM: NL88659 (AGC7648S V1)

Power Supplies & Fans 🞯 🖫 👀

2 slots for Hot-swappable PSUs and 1+1 redundancy support 4 slots for Hot-swappable FANs and 3+1 redundancy support

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





About Delta

Physical and Environmental Dimension (WxDxH): 438.5x460x43mm Weight: 8.28kg

Operating Temperature: 0 to 45°C Operating Relative Humidity: 10 to 90% RH noncondensing Storage Temperature: -20 to $70^{\circ}C$ Storage Humidity: 5 to 95% RH Operating altitude: 0 to 3000m

Open Software Environment (R) ONIE preloaded

Diagnostics software preloaded Compatible with ONL

Performance (Subject to NOS) (Packet Buffer: 4GB GDDR5 External TCAM - 2M records Switch Fabric: 800Gb/s full-duplex Processing Rate: 720 Mp/s Support Jumbo frames up to 9K MAC Addresses: 750 K VLAN IDs: 4K Forwarding Table Sizes: Subject to NOS Network Virtualization: Subject to NOS

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

Emissions: AS/NZS CISPR 22: 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 SI 10GBASE-SR, 300m SFP+ ports 10GBASE-LRM, 220m 10GBASE-LR4, 2km 10GBASE AOC, 3m 10GBASE DAC, 1m, 3m

Interface Type QSF 100GBASE-SR4, 100m QSFP28 ports 100GBASE-LR4, 2km, 10km 100GBASE-PSM4 100GBASE AOC, 3m 100GBASE DAC, 3m, 5m 100G to 4x25G AOC, 5m 100G to 4x25G DAC, 1m, 3m 40GBASE-SR, 150m, 300m 40GBASE-LR4, 2km, 10km 40GBASE-PSM4 Lite 40GBASE AOC, 3m, 5m 40GBASE DAC, 1m, 3m, 5m, 7m 40G to 4x10G AOC, 5m 40G to 4x10G DAC, 3m, 5m

Ordering Information AGC7648A (AC, F2B, Single PSU) AGC7648A-DC (DC, F2B) []

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

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.

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