Agema Open Networking Platform AGC5648S

Designed for deep buffered Data Center and granular traffic management Carrier applications, Agema AGC5648S bare-metal switch provides high-density low latency 25GbE SFP28 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 AGC5648S is configured with 48 x 25GbE SFP+28 ports and 6 high bandwidth 100GbE QSFP28 Uplinks. The device is pre-loaded with ONIE (Open Network Install Environment) ready to support the customers choice of modular extensible Network Operating Systems (NOS) benefiting users to achieve future proof SDN/NFV capable solutions, network scalability, flexibility and cost effectiveness. It delivers 1.8Tbps of switching fabric with integrated deep buffers and provides 1+1 resilient power in a very compact 1RU chassis.
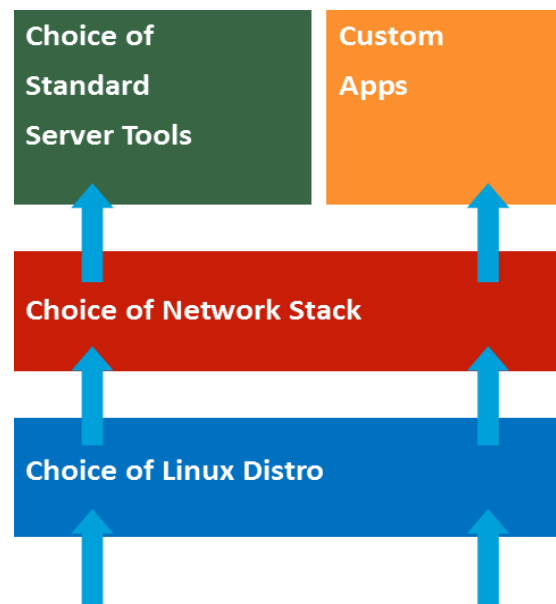
High Bandwidth/Scalability

Supporting 5G Service Provider and data critical Cloud applications, the AGC5648S supports a 1.8Tbps resilient data plane along with expanded TCAM table sizes to support millions of lookup entries which can be applied to route entries and network policies.

High Availability

To support resiliency requirements for critical use-cases, the AGC5648S has two slots for hot-swappable PSUs (Power Supply Units) and 5 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.

Key Features

- 1RU high-density 48x25G + 6x100GE.

- Up to 1.8Tbps of switching I/O bandwidth with deep buffers to support lossless network applications.

- 4 core Broadwell-DE Class CPU with BMC.

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

Choice of Standard Server Tools

Custom Apps

Choice of Network Stack

Choice of Linux Distro

Agema Hardware Switch Platform

Technical Specification

Ordering Information	Physical	Regulatory Compliance	Performance
6 x 40/100GbE QSFP28 ports	6 x 100GbE QSFP28	Safety: EN 60950-1, UL/CSA 60950-1, IEC 60950-1, CCC	Packet Buffer: 16GB
Support for 10G/25G Breakout Cables on 100G ports.	48 x 25GbE SFP+ 1 USB 2.0 port	Emissions: AS/NZS CISPR 22: Class A, ICES-003, Issue Class A, EN 55022: Class A, VCCI Class A, FCC CFR 47 Part 15, Subpart B Class A, CCC	External TCAM 2M Records Switch Fabric Forwarding Bandwidth: 1.8Tbps
48 x 10/25GbE SFP28 ports	1 Serial console ports 1 RJ45 OOB Management Port		Support Jumbo frames up to 16K
Rear single 10/100/1000M RJ45 OOB BMC Management port	CPU: Intel Broadwell-DE D1527 (4 core) [8-core option available] 64GB SSD 16GB DDR4	Immunity: EN 300 386, EN55024, EN 61000-3-2, EN 61000-3-3, EN 61000-4-2, EN 61000-4-3, EN 61000-4-5, EN 61000-4-6, EN61000-4-8, EN61000-4-11	IEEE1588, SyncE (Optional)
Front single 10/100/1000M RJ45 OOB management Port (non-BMC)	32MB SPI-Flash	EU RoHS Compliant	
RJ45 Serial Console			
USB type-A port	Dimension (WxDxH): 438.5x600x43.5mm		
2 slots for PSUs 5 slots for fans	Weight: 13.4 kg Power supply: 100–240 VAC 50/60 Hz		

Ordering Information (continued)

Power Supplies & Fans

2 Hot-swappable AC 1600W power supply (shipped with single PSU)

5 Hot-swappable FAN tray

Options:

- Bare Metal Only

- Fixed Configuration

Physical (continued)

Max. power consumption: 1600 Watts

Front to back air-flow

Operating temperature: 0 to 40°C
Operating relative humidity: 10 to 90% RH

Software Specification

- ONIE Pre-installed

- Zero Touch Provisioning via DHCP

More product information, please visit www.agemasystems.com

To learn more about Delta, please visit www.deltaww.com