Agema Open Networking Platform AG5648

Designed as the next generation TOR, the Agema AG5648 bare-metal switch provides high-density low latency 25GbE SFP28 connectivity to servers while providing 6x100GbE QSFP28 uplinks, all in a resilient 1RU package making it ideal for enterprise and data center Top of the Rack (ToR) deployment.

The AG5648 is configured with 48 x 25GbE SFP28 ports and 6 high bandwidth 100GE 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 ultra low sub-μsec latency, and also provides 1+1 resilient power in a very compact 1RU chassis.
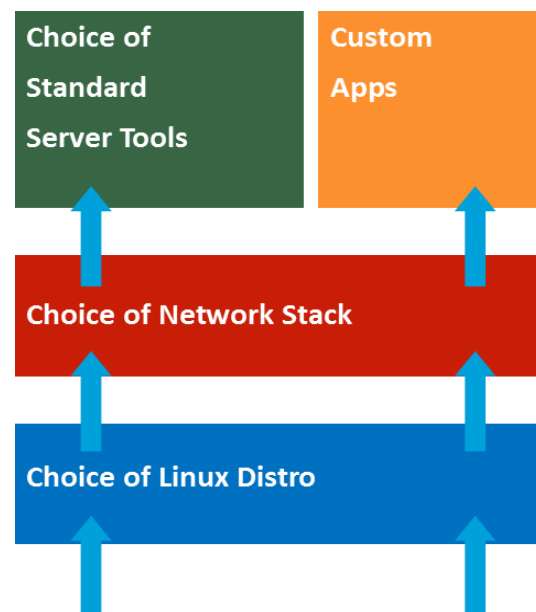
High Bandwidth

As bandwidth-intensive applications such as Web 2.0, virtualization, High Performance Computing (HPC) and Network Attached Storage (NAS) drive the transition to 25Gbps server connections within data centers and 100GbE Leaf/Spine interconnects, the AG5648 enablers the transition to support this level of performance at the top of rack.

High Availability

The AG5648 has two slots for hot-swappable PSUs (Power Supply Units) and 4 fan trays. SFP28/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 ToR.

- Up to 1.8Tbps 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.

Agema Hardware Switch Platform

Technical Specification

Ordering Information	Physical	Regulatory Compliance	Performance
6 x 100GbE QSFP28 ports 48 x 25GbE SFP28 ports Single Serial RJ45 console Single USB 2.0 type-A port Single 10/100/1000M RJ45 OOB Management port 2 slots for PSUs 4 slots for fans **Power Supplies & Fans** 2 Hot-swappable AC power supply (shipped with single PSU) 4 Hot-swappable FAN tray **Options:** • Bare Metal Only • Fixed Configuration	6 line-rate 100GbE QSFP28 48 line-rate 25GbE SFP28 1 USB-A type port 1 Serial RJ45 console ports 1 RJ45 OOB Management Port CPU: Intel Rangeley C2538 8GB SSD 4GB DDR3 16MB SPI-Flash Dimension (WxDxH): 438.5x460x43.5mm Weight: 8 kg Power supply: 100–240 VAC 50/60 Hz Max. power consumption: 550 Watts Operating temperature: 0 to 40°C Operating relative humidity: 10 to 90% RH	Safety: EN 60950-1, UL/CSA 60950-1, IEC 60950-1, CCC 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 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 EU RoHS Compliant	Integrated Packet Buffer Memory: 16 MB MAC Address: Max 136K Switch Fabric: 1.8Tbps IPv4 host table size: 8K min/72k max. IPv6 host table size: 4K min/36k max. L2 Multicast Table: 64K L3 multicast Groups: 32K Support Jumbo frames up to 12KB

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