Agema Open Networking Platform AG5648V1

Designed as the next generation TOR, the Agema AG5648V1 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 AG5648V1 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.
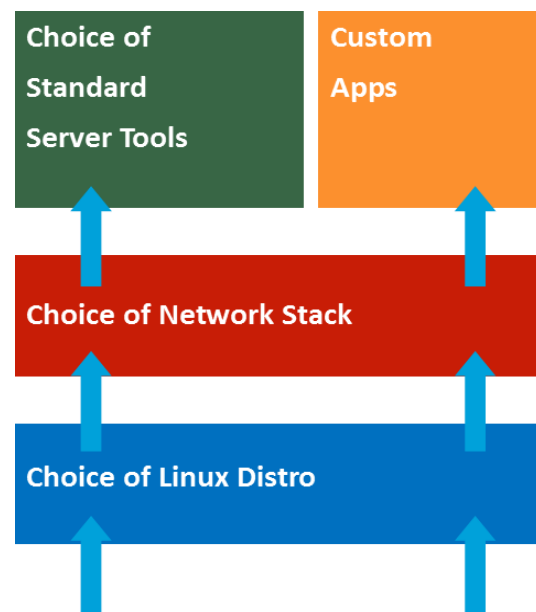
High Bandwidth

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 AG5648V1 enablers the transition to support this level of performance at the top of rack.

High Availability

The AG5648V1 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

Product Specification

Features

Ports
48 x 25GbE SFP28 ports
6 x 100GbE QSFP28 ports
1 x RJ45 serial console port
1 x RJ45 100/1000M OOB
  Management port
1 x USB port

Key Parts
Switching Chip: BCM56967
CPU Board:
Intel Rangeley C2538
4GB x1 DDR3
8GB m2. SSD
16MB SPI-Flash (Boot)

Power Supplies & Fans
2 slots for Hot-swappable PSUs
4 slots for Hot-swappable FANs

Applicable PSU
AC to DC: 100 ~ 240 VAC 50/60 Hz
DC to DC: -40 ~ -72 VDC

Power consumption:
Typical 369 Watts; Max. 550 Watts

Physical and Environmental
Dimension (WxDxH):
438.5x460x43mm
Weight: 7.99 kg

Operating Temperature: 0 to 40
Operating Relative Humidity: 10 to
90% RH

Storage Temperature: -20 to 70
Storage Humidity: 5 to 95% RH

Open Software Environment
ONIE preloaded
Diagnostics software preloaded
Compatible with ONL

Performance (Subject to NOS)
Integrated Packet Buffer: 16 MB
MAC Address: Max 136K
Switch Fabric: 1.8Tbps ; 3.6 Tbps
(full duplex)
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
VLAN: 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

Warranty
Please visit agema.deltaww.com
for the warranty terms and condi-
tion

Ordering Information:
AG5648 v1 (Single AC version)
AG5648 v1 DP (Dual AC version)
AG5648 v1-DC (Dual DC version)

Optional accessories:
AGPSU-550AC
AGPSU-550DC
AGFAN-04

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 indus-trial 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 has 163 sales offices, 64 R&D centers and 39 manufacturing facilities worldwide.

Throughout its history, Delta has received many global awards and recognition for its business achievements, innovative technologies and dedication to corporate social responsibility. Since 2011, Delta has been selected as a member of the Dow Jones Sustainability™ World Index (DJSI World) for 7 consecutive years. In 2017, Delta was selected by CDP (formerly the Carbon Disclosure Project) for its Climate Change Leadership Level for the 2nd consecutive year.

More product information, please visit agema.deltaww.com or mail to AgemaSales@deltaww.com

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