Agema Open Networking Platform AG7648

Designed for high-capacity applications, Agema AG7648 switch provides high-density low latency 10GbE connectivity in a resilient package making it ideal for enterprise and data center Top of the Rack (ToR) deployment.

The AG7648 is a 48 x 10GbE (SFP+) with 6 x 40 GbE (QSFP+) ports high bandwidth and high density switch. The device is pre-loaded with ONIE (Open Network Install Environment) and a choice of modular extensible Network Operating Systems (NOS) benefiting users to achieve future proof SDN/NFV capable solution, network scalability, flexibility and cost effectiveness. It delivers 1.44Tbps (full Duplex) of switching fabric with ultra low sub-μsec latency, and also provides 1+1 resilient power in a very compact 1RU chassis.
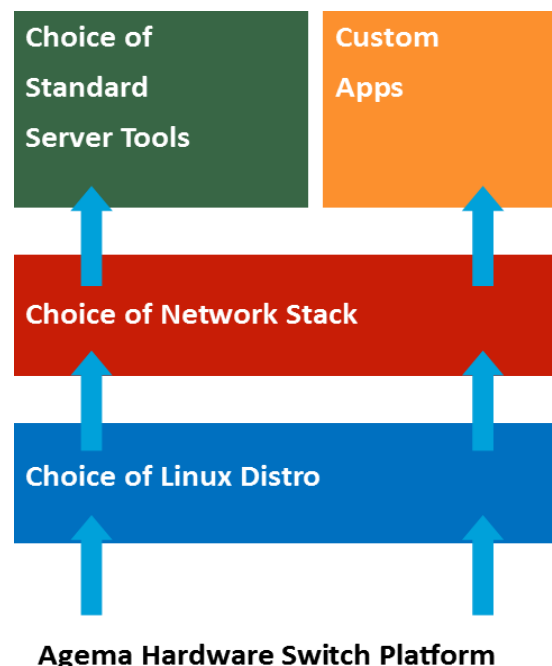
High Bandwidth

As bandwidth-intensive applications such as Web 2.0, virtualization, High Performance Computing (HPC) and Network Attached Storage (NAS) continue to proliferate within data centers, 10 GbE provides a cost effective way to increase throughput and seamlessly deliver customer service level agreements.
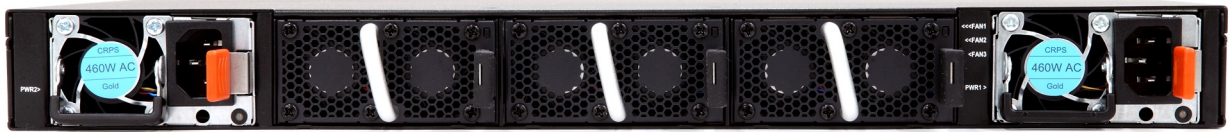
High Availability

The AG7648 has two slots for hot-swappable PSUs (Power Supply Units) and 3 fan trays. Also SFP+ and QSFP+ 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 48 ports 10GbE with 6 ports 40GBE ToR.

- Up to 1.44Tbps of switching I/O bandwidth (full Duplex) and available non-blocking cut-through switching fabric delivering line-rate performance.

- Open automated configuration and zero-touch provisioning capabilities to simplify the management of network environments.

Agema Hardware Switch Platform

Product Specification

Features

Ports
48 x 10GbE SFP+ ports
6 x 40GbE QSFP ports
1 x RJ45 serial console port
1 x RJ45 100/1000M OOB
     Management port
1 x USB port

Key Parts
Switching Chip: BCM56854 Trident 2
CPU Board:
Intel Rangeley C2338
2GB x1 DDR3
8GB m2. SSD
16MB SPI-Flash (Boot)

Power Supplies & Fans
2 slots for Hot-swappable PSUs
3 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 230 Watts; Max. 460 Watts

Physical and Environmental
Dimension (WxDxH):
438.5x460x43.5 mm
Weight: 9.4 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: 12 MB
MAC Address: 32K min/Max 288K
L3 LPM: Max 128K (LPM mode)
              16K (TCAM-only mode)
Switch Fabric: 720 Gbps; 1.44 Tbps
(full-duplex)
IPv4 host table size: 16K min/112 max
IPv6 host table size: 8K min/56 max
L2 Multicast Table: 16K
L3 multicast Groups: 8K
VLAN: 4K

Regulatory Compliance
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 55032: Class A, VCCI Class A,
FCC CFR 47 Part 15, Subpart B
Class A, CCC

Immunity: 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

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

Ordering Information:
AG7648 (Single AC version)
AG7648 DP (Dual AC version)
AG7648-DC (Dual DC version)

Optional accessories:
AGPSU-460AC
AGPSU-550DC
AGFAN-01

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 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.

©2018 All Rights Reserved. Information in this document is subject to change without notice.

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

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