EXPO HALL: PRES.
Moving Beyond the Inflection Point:
A White Box Perspective

David Fermor
Vice President of Engineering
Delta Products Corporation
AGC5648- 25GbE Deep Buffer Switch

- Carrier Class Switching:
  - 48 SFP28 + 6 QSFP28
  - Broadcom BCM88680 Jericho+ (2 off)
  - External TCAM: BCM52311 x 2
  - 8GB GDDR5 per BCM88680
  - Sync-E support
- CPU: Intel Broadwell D1548
  - 32GB DDR4
  - 64GB SSD
  - BMC
  - TPM
- ONIE Install Environment
- 1600W Redundant PSU - AC and DC versions

Sample/Product Availability: NOW
AG9064 – Data Center Spine

- Data Center Switching:
  - 64 QSFP28
  - Broadcom BCM56970 (Tomahawk2)
- CPU: Intel Broadwell D1547
  - 32GB DDR4
  - 64GB SSD
  - BMC
  - TPM
- ONIE Install Environment
- 1600W Redundant PSU - AC and DC versions

Sample/Product Availability:
COMING SOON
The Delta Advantage

Power Electronics
- Embedded Power Supplies
- Mobile Power Supplies
- Industrial and Medical Power Supplies
- Fans and Thermal Management
- Electronic Components for ICT Equipment

Energy Management
- Industrial Automation
- Telecom Power Systems
- UPS & Datacenter Infrastructure
- Automotive Electronics & EV Charging
- Renewable Energy
- Energy Storage Systems

Smart Green Life
- Networking Systems
- Display and Visualization
- LED Lighting
- Healthcare Devices
- Innergie

Our Business

Delta's Solar Tracking Solution Contributes to Crescent Dunes Solar Energy Project
Delta's solar tracking solution offers industry-leading performance and pointing accuracy to help synchronize and manage over 10,000 tracking mirrors, called heliostats.

Designed to be LEED Platinum and Net Zero
Delta Americas headquarters boasts a ground-source heating and cooling system that reduces HVAC energy consumption by 50 percent compared to traditional systems and is powered by Delta's solar system to meet net zero.

See Future Smart Manufacturing in the Cloud
Delta showcased innovative automation technology at SPS IPC Drives/Nuremberg 2016, featuring its cloud and IoT technology, as well as new advanced industrial automation products to help customers achieve smart manufacturing.
Data Center Architecture with Delta’s Products

Active Optical Cable
- 100G Quadwire AOC
- 40G Breakout AOC
- 40G Quadwire AOC
- 25G SFP+ AOC
- 10G SFP+ Wire

Fiber Optical Transceiver
- 100G QSFP28 SR4 / CWDM4 / LR4
- 40G QSFP+ SR4 / eSR4 / LR-Lite
- 25G SFP+ SR / LR Lite
- 10G SFP+ SR / LR / LR Lite

Spine/Edge
Spine
Leaf
Server and Storage
The Agema Advantage

Service Provider SW and Integration Partners

- DELTA NETWORKS, INC.
- openstack
- ipinfusion
- snaproute
- CPLANENETWORKS
- BROADCOM
- LTA NETWORKS
- CUMULUS
- ONOS
- ON.LAB
- Open Networking USER GROUP
Partner Quotes

“Broadcom is pleased to collaborate with Agema to provide the carrier grade deep buffer Ethernet switch solution. Broadcom’s partnership with Agema enabled a fast time-to-market, industry-leading networking solution for data centers and service providers, and we look forward to launching many more platforms in the coming months.”

- Wei-Ai Tai, Director of Business Development

“By building a disaggregated network with Agema’s robust network switches and the OcNOS™ network operating system, large-scale data centers can deliver services faster, easier and at less cost,” said Atsushi Ogata, CEO and president of IP Infusion. “With Agema and IP Infusion, enterprises and service providers who want an Open Compute standards-based solution can build their disaggregated network more quickly and gain the greater flexibility and scalability they need.”

- Srikanth Krishnamoha, Director of Business Development

“CPLANE NETWORKS is pleased to team with Agema Systems to deliver a truly open solution for advanced cloud networking. Agema’s high-performance white box switches, combined with CPLANE’s multi-site cloud orchestration, gives enterprises and service providers an ideal platform for software-defined networking. With seamless integration to the industry-leading OpenStack virtual infrastructure manager, the Agema/CPLANE solution enables customers to quickly deploy multi-site clouds within the data center for agile workload placement, and at the network edge for NFV and IoT.”

- Brandon Williams, CEO CPLANE NETWORKS
1. Agema is working with UNH-IOL to define critical use-cases, beyond Layer 1, which are candidates for more advanced inter-op and certification reference platforms:
   a) Data Center
   b) Enterprise
   c) Service Provider CORD
   d) Service Provider Mobile Backhaul

2. Licensing – As OCP evolves to serve the white-box industry further we request that the licensing framework also evolves to respect the intellectual property that exists within the state-of-the-art platform designs. Delta/Agema propose that developing a certification capability at the functional level will act as a catalyst and enabler for greater participation within OCP at both the HW and SW level.
Thank You

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