CIG CS6436-56P OCP Switch Contribution

Harrison Zou
Cambridge Industries USA, Inc.
Cambridge Industries is contributing a Nephos Taurus based 1RU 2.4Tbps Data Center Switch design (48 25GE SFP28 + 8 100GE QSFP28)
Nephos Taurus device
- 2.4Tbps performance
- Programmable packet processing
- 24MB packet buffer
- Low cut-through latency
- DoS protection

COM-E CPU module
- Option1
  - Intel Atom processor x5-E3940, 4 cores, 1.8GHz
  - 8GB DDR3L SODIMM with ECC
  - 64GB eMMC5.0 Flash
- Option2
  - Intel Denverton C3758, 8 cores, 2.2GHz
  - Integrated QuickAssist Technology
  - 32GB DDR4 SODIMM with ECC

48 25GE SFP28 + 8 100GE QSFP28

Front panel management and debug Ifs
- 10/10/1000 RJ45 GE management
- Console
- Type A USB2.0

AST2520 BMC support
CS6436-56P Overview
CS6436-56P Overview

48 x 25GE SFP28

Front

System LED
Management, Console, USB
8 x 100GE QSFP28

Rear

550W PSU1
FAN#5  FAN#4  FAN#3  FAN#2  FAN#1
550W PSU0
CS6436-56P Block Diagram

Block Diagram
Hardware Design Spec

Software Support
- ONIE (link to GitHub)
- Open Network Linux
- SONIC (link to GitHub)
Thank You