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NETWORKS

Trident 3 Based OCP Product

Contributions

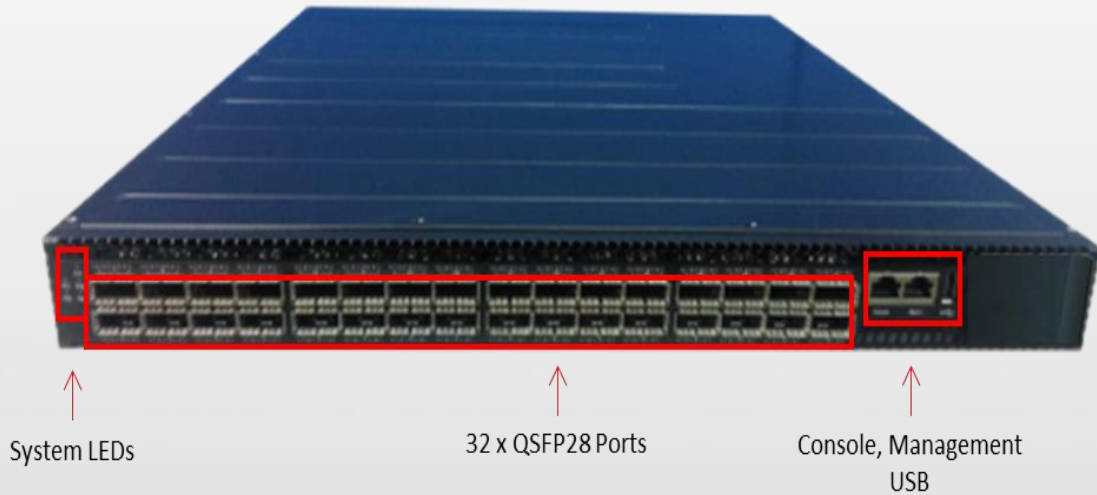
September 2018

Updating Current Contribution Functionality

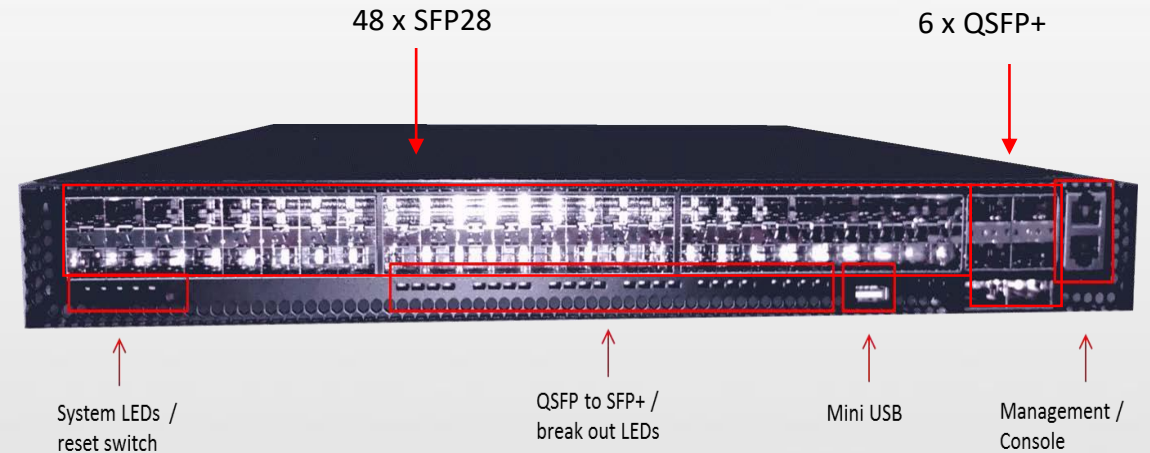
- Edgecore Networks is contributing new designs to “upgrade” the current AS7700-32X and AS7300-54X Tomahawk(+) product contributions with new Trident 3 based designs
- Trident 3 Enhancements
 - Programmable Pipeline
 - 32MB packet Buffer
 - Increased number of MPLS push/pop label support
 - IPv6 VXLAN Support
 - 2X+ Route table size
 - 2x+ ACL table size

Current Tomahawk Based Products

AS7700-32X
Broadcom Tomahawk

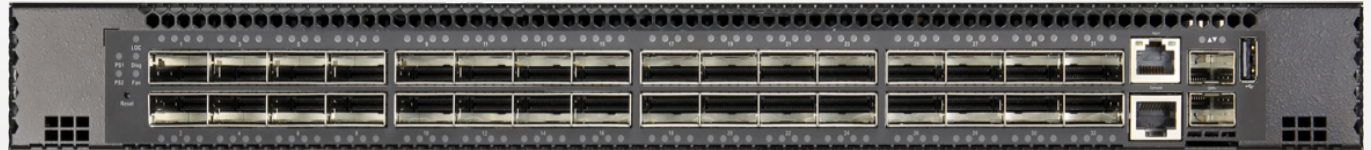


AS7300-54X
Broadcom Tomahawk+

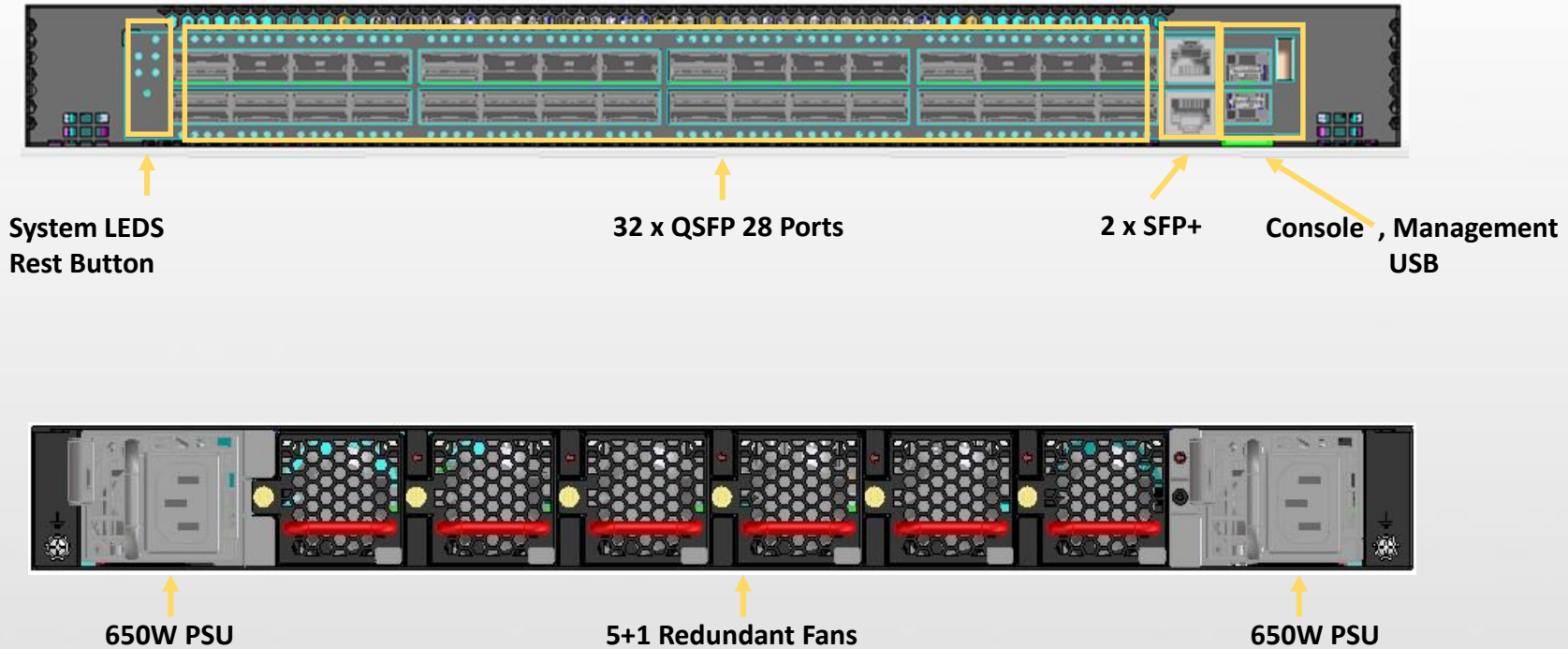


New Trident 3 Based Switch Contributions

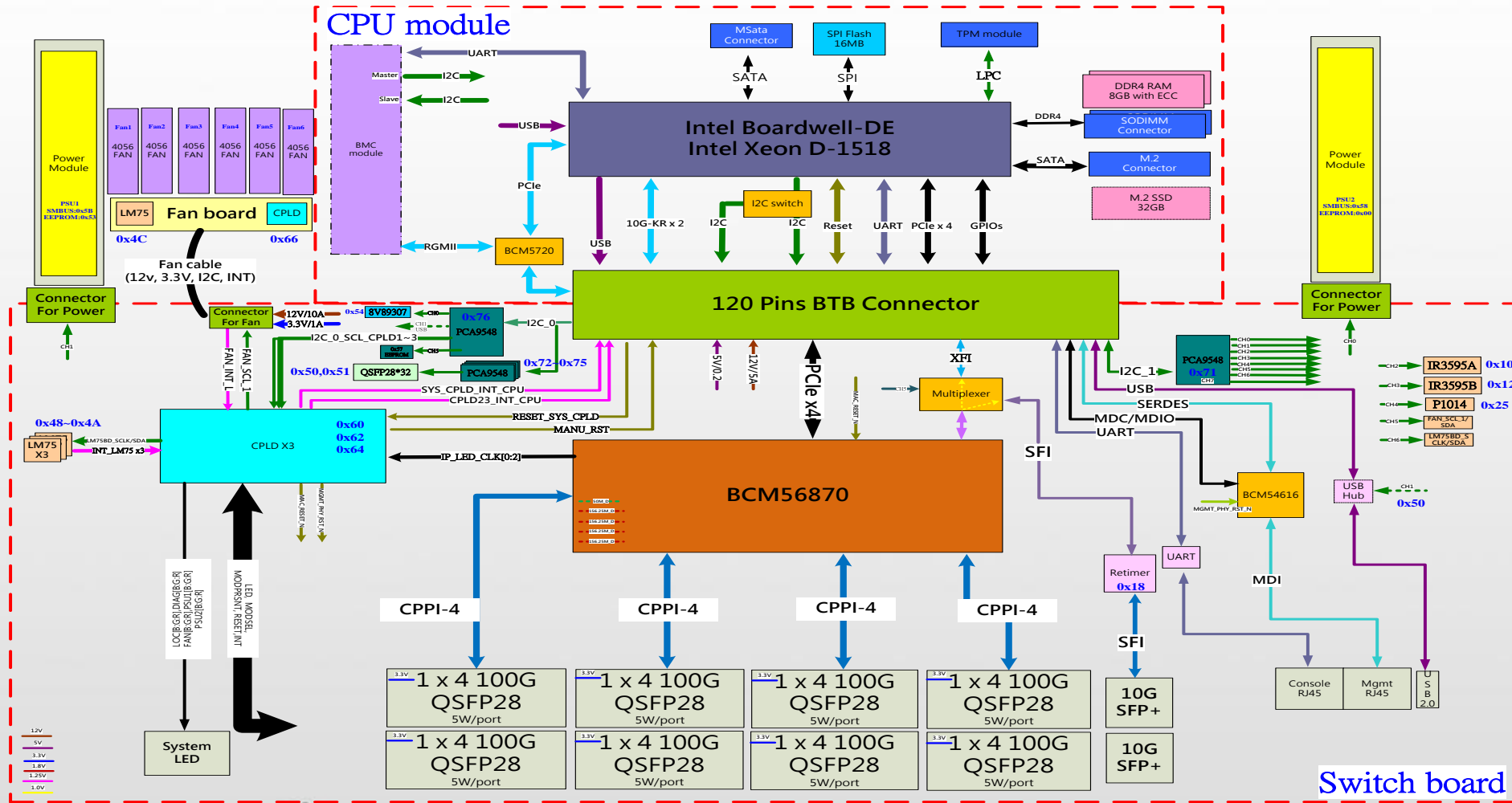
- 32x100G QSFP28 + 2x10G SFP+
 - Based on AS7700-32X OCP-ACCEPTED™ form factor with 2 additional 10G ports
- 48x25G SFP28 + 8x100G QSFP28 + 2x10G SFP+
- Additional features compared to Tomahawk
 - VXLAN Routing
 - Programmability
 - 32MB buffer vs 22MB TH+
 - Increased ACL and table scale
- CPU Module Options
 - Intel Atom C2538 Rangeley
 - Intel Xeon D-1518 with BMC
 - Intel C3558 Denverton



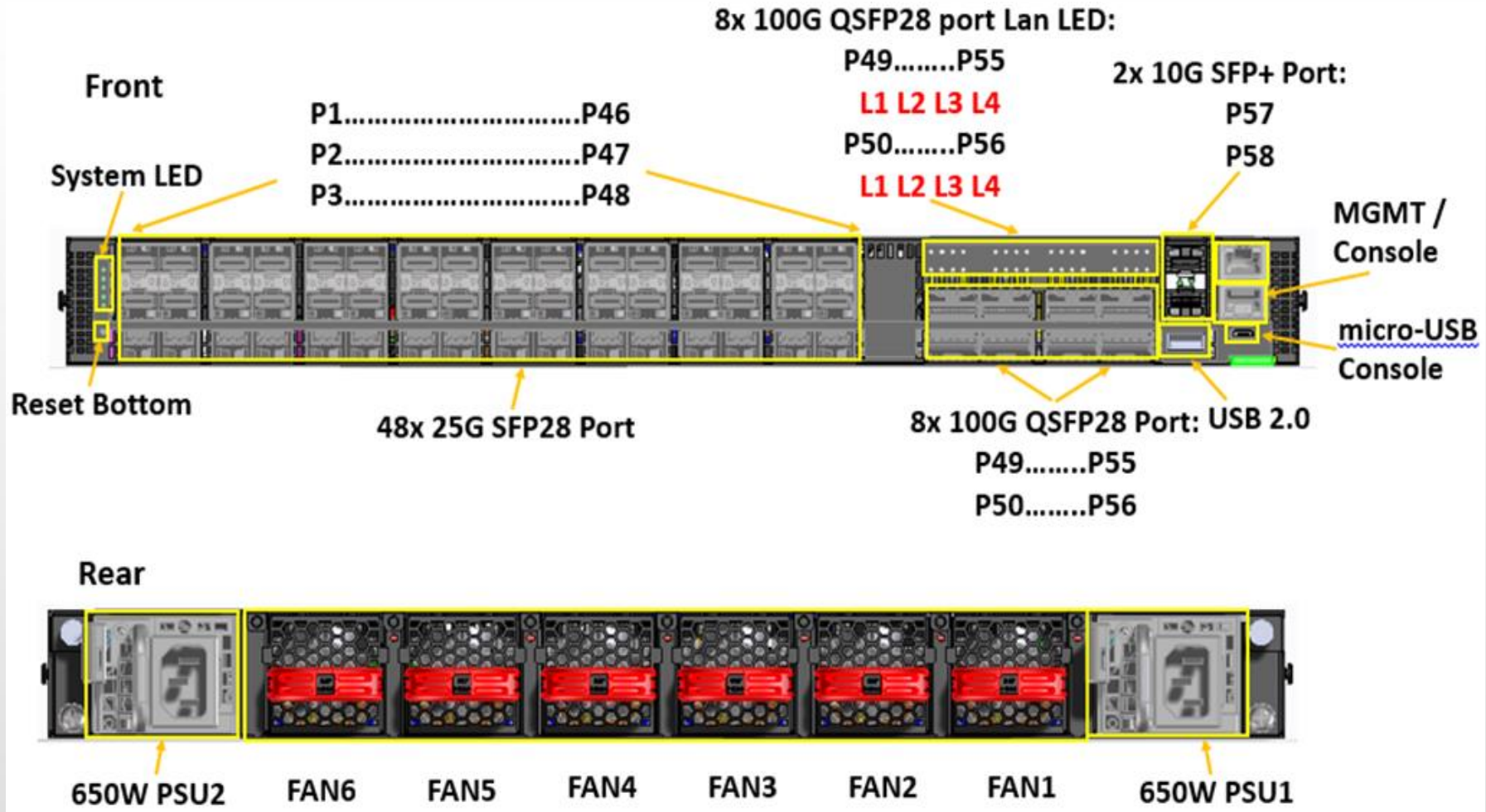
Edgecore AS7726-32X Overview



Edgecore AS7726-32X Block Diagram



Edgecore AS7326-56X Overview



What Is Being Contributed ?

Hardware

- Design Specification
- Complete Design Package
 - Schematics
 - Allegro .brd Files
 - Gerber Files
 - Mechanical STEP Files
 - Mechanical Assembly Drawings
 - Complete Bill of Material
 - CPLD Code in Binary and Source format
 - Test Plan

Software Support

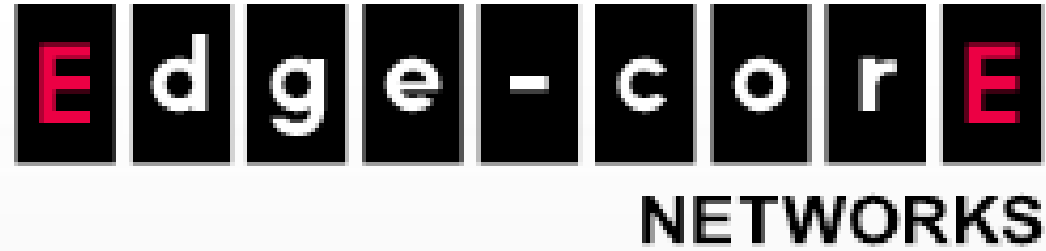
- ONIE
- Open Network Linux
- OCP Baseline Redfish
- Open Optical Monitoring (OOM)
- SONiC
- Trellis, Stratum (ONF)

Contribution Schedule

- Overview presentation on contributions to community – 9/10/2018
- Design specification available for community review - 9/10/2018
- Design package available for review 9/24/2018

OCP Tenets

- Scale – The AS7726-32X and AS7326-56X allows for large scale deployments in data center environments. This is provided by the many choices of automated provisioning and management features and functions provided the various NOS options and in the ecosystem available for the products.
- Openness - The AS7726-32X and AS7326-56X are completely open designs with a complete hardware design package contributed to Open Compute. In addition to the open hardware these designs support numerous open source software options including SONiC and many NOS options available through ONF (Trellis, Stratum, etc.)
- Impact - The update of existing contributions to designs with the Trident 3 silicon provides many enhanced functions as well as new functions that are desired in datacenter environments.



Thank You