

An abstract graphic on the left side of the image, composed of numerous thin, light green lines that curve and swirl together to form a complex, organic shape resembling a stylized flower or a dynamic tunnel. The lines are set against a solid dark blue background.

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OCP
SUMMIT

CIG CS6436-56P OCP Switch

Harrison Zou
Cambridge Industries USA, Inc.



CIG – Introduction

● Greifswald, Germany

● Wuhan
● Xi'an
● Shenzhen
● Hong Kong
● Thailand
● Malaysia

● Tokyo
● Shanghai

● Silicon Valley

● New York

- Company founded in 2005 with core competences in innovative R&D and advanced manufacturing
 - Company is registered in Shanghai, China; State of Delaware, USA and Tokyo, Japan
 - Shanghai Stock Exchange listed (CIGTech:603083.SH)
- Product house for datacenter, enterprise and telecom: Optical, Switch, Broadband, Wireless, IoT...
- ~3000 Employees
- For more information: www.cigtech.com

Contribution Overview

- Cambridge Industries is contributing a Nephos Taurus based 1RU 2.4Tbps Data Center Switch design (48 25GE SFP28 + 8 100GE QSFP28)



NETWORKING



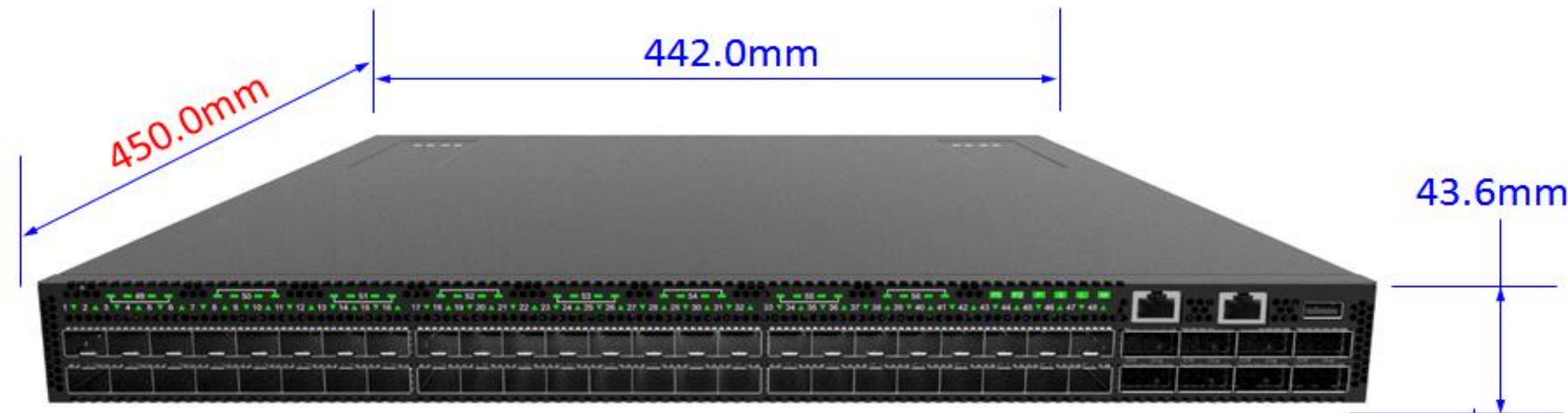
Specifications



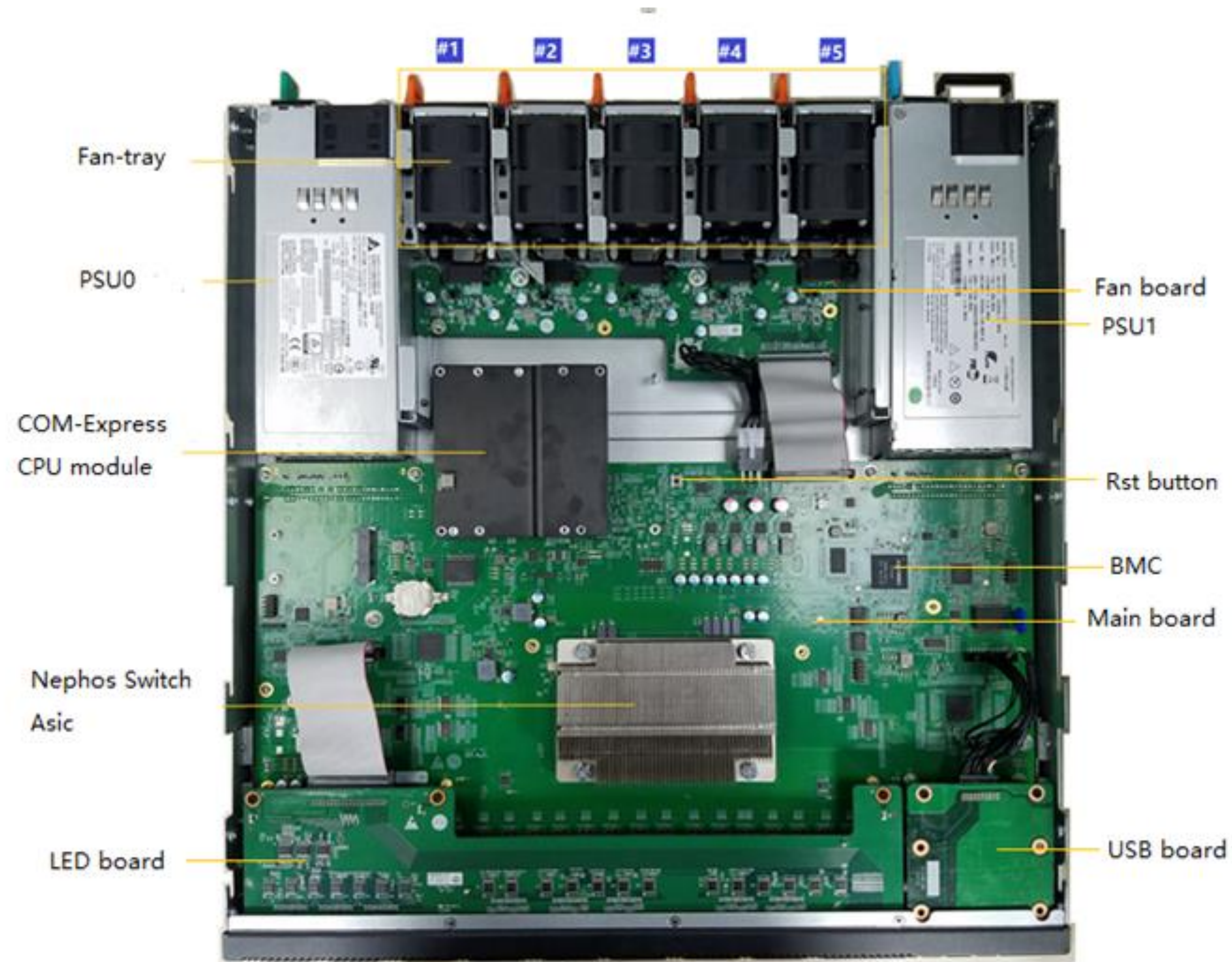
Embedded
Software

CS6436-56P Data Center Switch

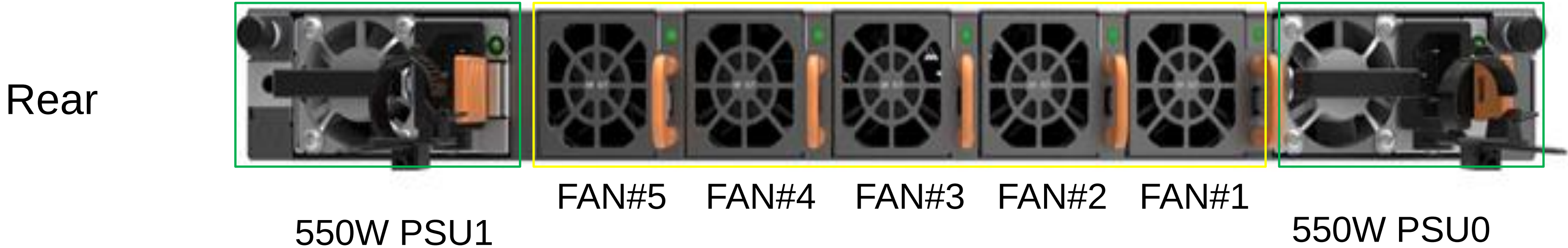
- Nephos Taurus device
 - ▶ 2.4Tbps performance
 - ▶ Programmable packet processing
 - ▶ 24MB packet buffer
 - ▶ Low cut-through latency
 - ▶ DoS protection
- COM-E CPU module
 - ▶ Option1
 - Intel Atom processor x5-E3940, 4 cores , 1.8GHz
 - 8GB DDR3L SODIMM with ECC
 - 64GB eMMC5.0 Flash
 - ▶ Option2
 - 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



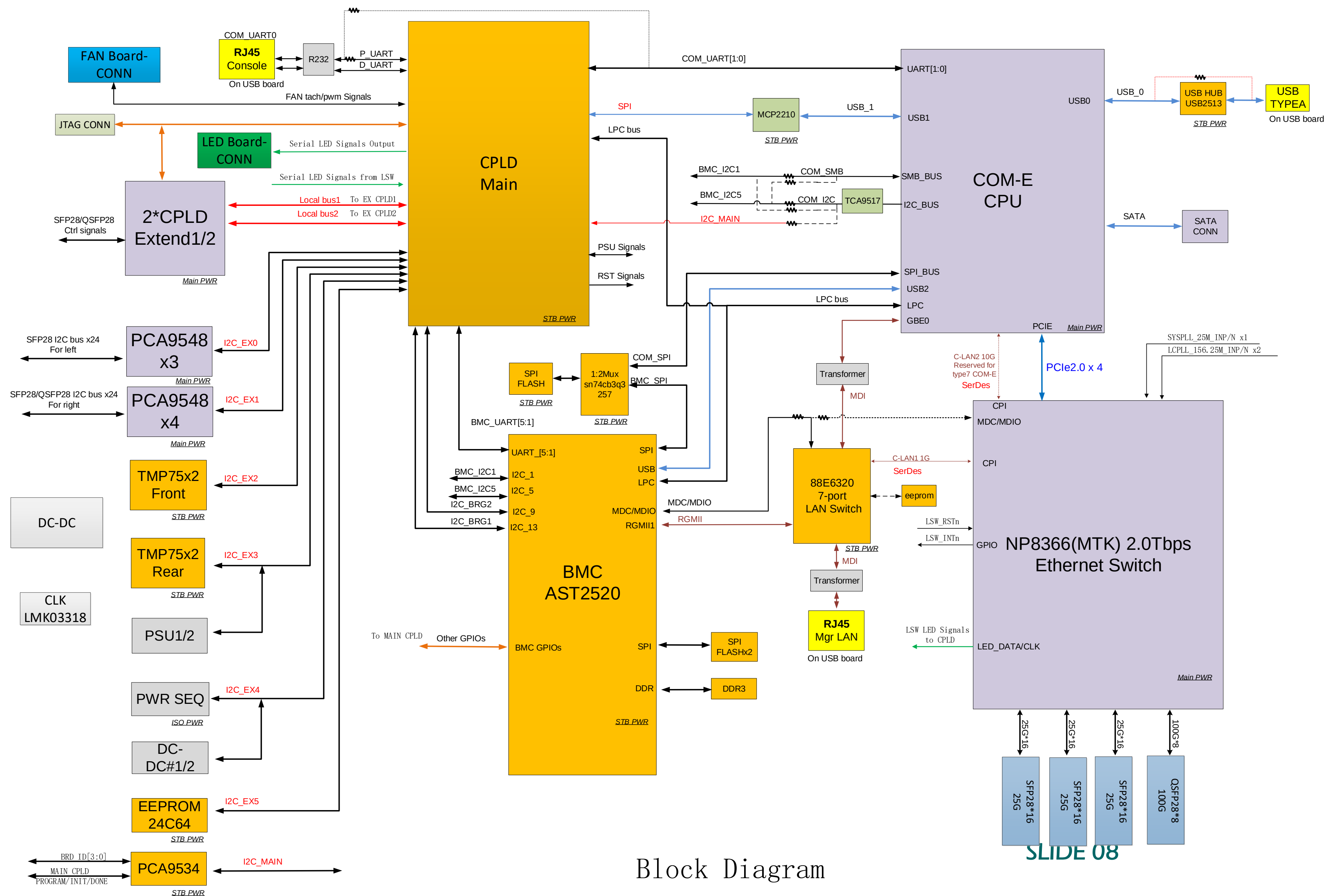
CS6436-56P Overview



CS6436-56P Overview



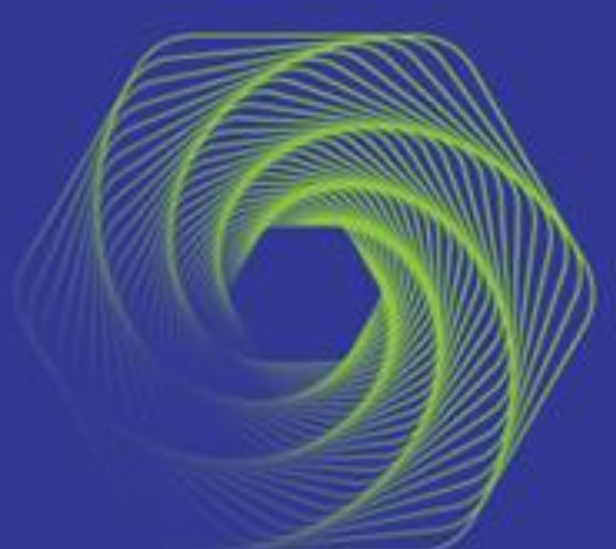
CS6436-56P Block Diagram



Block Diagram

Contribution Summary

- Hardware Design Spec
 - ▶ Submitted
- Software Support
 - ▶ ONIE ([link](#) to GitHub)
 - ▶ Open Network Linux
 - ▶ SONIC (submitted, under review)



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