OCP SUMMIT

March 20-21
2018
San Jose, CA

OPEN. FOR BUSINESS.

Building OCP Server Solutions with Project Olympus Building Blocks

Raymond Miles / VP Architecture / ZT Systems

Agenda

- ZT Overview
- Project Olympus Building Blocks
- Server Solutions
- Building Blocks Advantage

ZT CONFIDENTIAL © Copyright 2018 ZT Systems Inc. The information contained herein is subject to change without notice.

ZT Systems Overview

Leading provider of optimized servers and storage servers for hyperscale data centers

- Founded in 1994 starting with desktops and SMB servers, 2004 shifted focus to DC Servers
- Private company for maximum customer confidentiality
- US based with global operations

Built for Hyperscale

- Maximum design flexibility
- Custom supply chain management programs

High volume manufacturing

- Flexible manufacturing with ability to scale up and down

ZT Systems®

ZT CONFIDENTIAL © Copyright 2018 ZT Systems Inc. The information contained herein is subject to change without notice.

Project Olympus HW Building Blocks

- **Motherboards:** flexible expansion
- **Power Supply:** balanced 340W three-phase
- **Universal PDU:** AC power cord adaption
- **Rack:** 19” EIA-310 standard
- **Rack Manager:** restful API or Redfish via Ethernet

ZT CONFIDENTIAL © Copyright 2018 ZT Systems Inc. The information contained herein is subject to change without notice.

Project Olympus Server Solutions

Compute

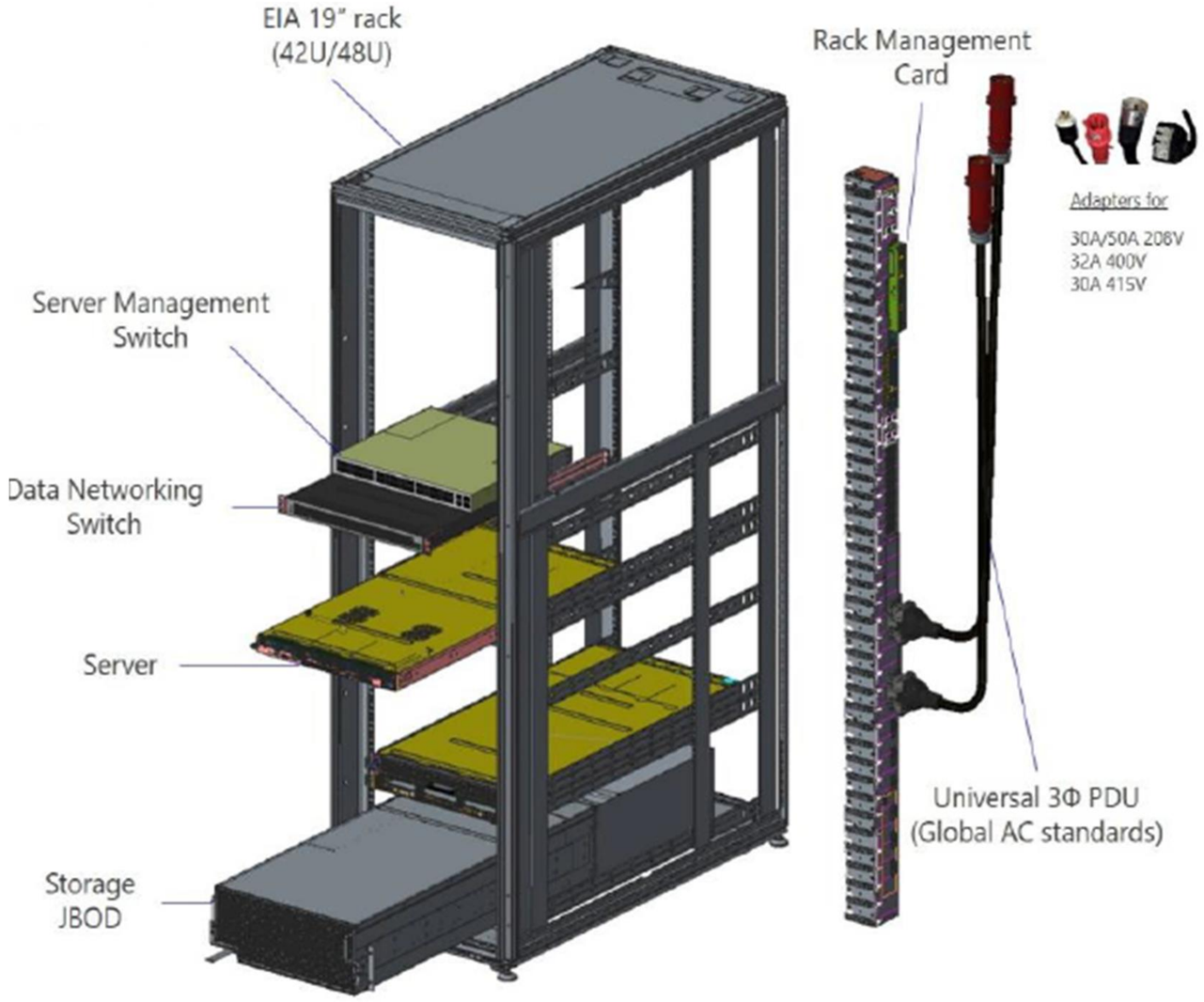
- US1-XSP (Intel)
- US1-EPYC (AMD)
- US1-THX2 (Cavium)
- US1-Centriq (Qualcomm)

Storage

- HX-88
- FX-16

GPU

- HGX-1



ZT CONFIDENTIAL © Copyright 2018 ZT Systems Inc. The information contained herein is subject to change without notice.

ZT Server Solution: 3U PCIe Expansion

- Project Olympus Building Blocks
  - US1-XSP (Intel) motherboard
  - 1U heatsink
  - Power supply
  - Universal PDU
  - Rack
  - Rack manager

- ZT-Developed
  - Two versions of 3U chassis
  - Riser cards
  - Thermal/ducting solution
  - PDB (connecting 3xProject Olympus PSUs)

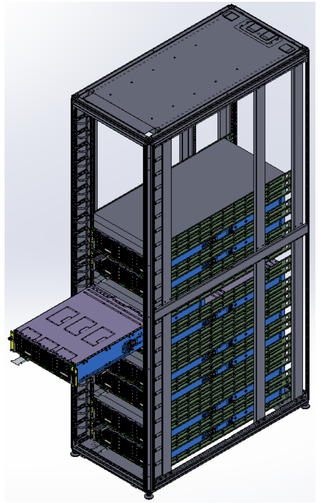
ZT CONFIDENTIAL © Copyright 2018 ZT Systems Inc. The information contained herein is subject to change without notice.

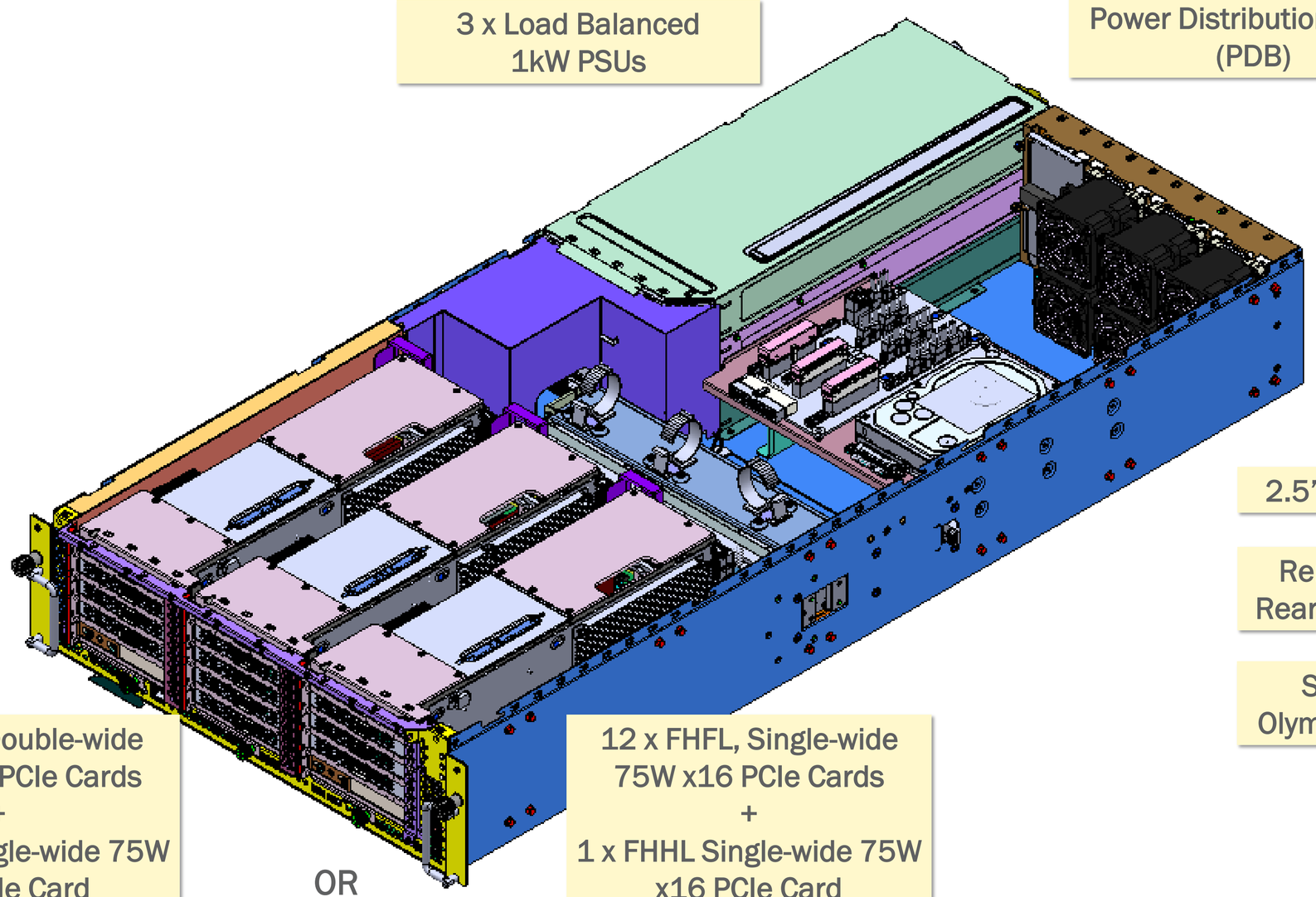
ZT Server Solution: 3U PCIe Expansion

3 x Load Balanced
1kW PSUs

Power Distribution Board
(PDB)

Project Olympus Rack
Fully Compatible





PSUs Blind mate
into Rack PMDU

6 x 60mm Dual
Rotor Fans
(room for 8 Fans)

2.5”/3.5” SSD or HDD

Removable Shelf for
Rear Bay Customization

Supports Project
Olympus motherboards

6 x FHFL, Double-wide
300W x16 PCIe Cards
+
1 x FHHL Single-wide 75W
x16 PCIe Card

OR

12 x FHFL, Single-wide
75W x16 PCIe Cards
+
1 x FHHL Single-wide 75W
x16 PCIe Card

ZT CONFIDENTIAL © Copyright 2018 ZT Systems Inc. The information contained herein is subject to change without notice.

Building Blocks Advantage

- Flexible configuration of server solutions utilizing hardened server building blocks (HW and FW)

- Targeted HW and FW development
  - Use building blocks as the foundation → only develop necessary “pieces”
  - Lower risk and development costs while delivering optimized solutions

Success in the cloud requires speed and flexibility →
Achieve both with Project Olympus building blocks

ZT CONFIDENTIAL © Copyright 2018 ZT Systems Inc. The information contained herein is subject to change without notice.

Q&A

- Visit ZT Systems in booth A35
- Learn more at www.ztsystems.com/ocp

ZT CONFIDENTIAL © Copyright 2018 ZT Systems Inc. The information contained herein is subject to change without notice.

OCP SUMMIT