Building OCP Server Solutions with Project Olympus Building Blocks

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Agenda

• ZT Overview

• Project Olympus Building Blocks

• Server Solutions

• Building Blocks Advantage
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
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
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 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 Server Solution: 3U PCIe Expansion

Project Olympus Rack Fully Compatible

3 x Load Balanced 1kW PSUs

Power Distribution Board (PDB)

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

OR

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

12 x FHFL, Single-wide 75W x16 PCIe Cards
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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
Q&A

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