

# OPEN

Compute Project

## **Rackgo X Yosemite Valley**

### **Brief Specification**

<Revision:1.0>

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## 1. Overview

The brief specification describes Yosemite Valley comprises 12 dense computing nodes that features Intel's next-gen power-efficient processors and multi-host network aggregation that optimizes computing density, economizes expenditure and reduces environmental impact.

## 2. High Level System Features

Table 1 High Level System Features

Processor	
Processor Type	Intel®Xeon® processor D-1500 product family
Number of Processors	1 Processor
L3 Cache	Up to 24MB
Form Factor	
Form Factor	12 Nodes 2 OU (Open Rack) Rackmount
Storage	
Storage	(1) SATA M.2 connector per node
Dimensions	
W x H x D (inch)	21.14 x 3.67 x 33.58
W x H x D (mm)	537 x 93.2 x 853
Chipset	
Chipset	Intel®Xeon® processor D-1500 SoC chipset
Memory	
Total Slots	4 (per node)
Capacity	Up to 128GB of memory for RDIMM per node
Memory Type	2133/1866/1600/1333 MHz DDR4 RDIMM
Memory Size	32GB RDIMM
Front I/O	
Front I/O	(1) Aggregated Mellanox CX4-LX Multi-host network card per sled
Storage Controller	
Onboard	Intel®Xeon® processor D-1500 SoC controller
Onboard Storage	
Onboard Storage	(1) SATA M.2 connector per node
Fan	
Fan	(2) Single rotor fan per sled
Video	
Video	NA

## System Management

System Management	IPMI v2.0 Compliant, on board "KVM over IP" support Quanta Datacenter Manager 2.0/QDCM 2.0 (Optional)
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## Operating Environment

Operating Environment	Operating temperature: -5°C to 35°C (23°F to 95°F) Non-operating temperature: -40°C to 65°C (-40°F to 149°F) Operating relative humidity: 20% to 85% RH Non-operating relative humidity: 40% to 90% RH
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## TPM

TPM	Yes With TPM 1.2/ 2.0 Option
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## Rack Compatible

Rack Compatible	Open Rack v2
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### 3. Yosemite Sled Block Diagram

The block diagram describes the high level functional block diagram of Yosemite Sled

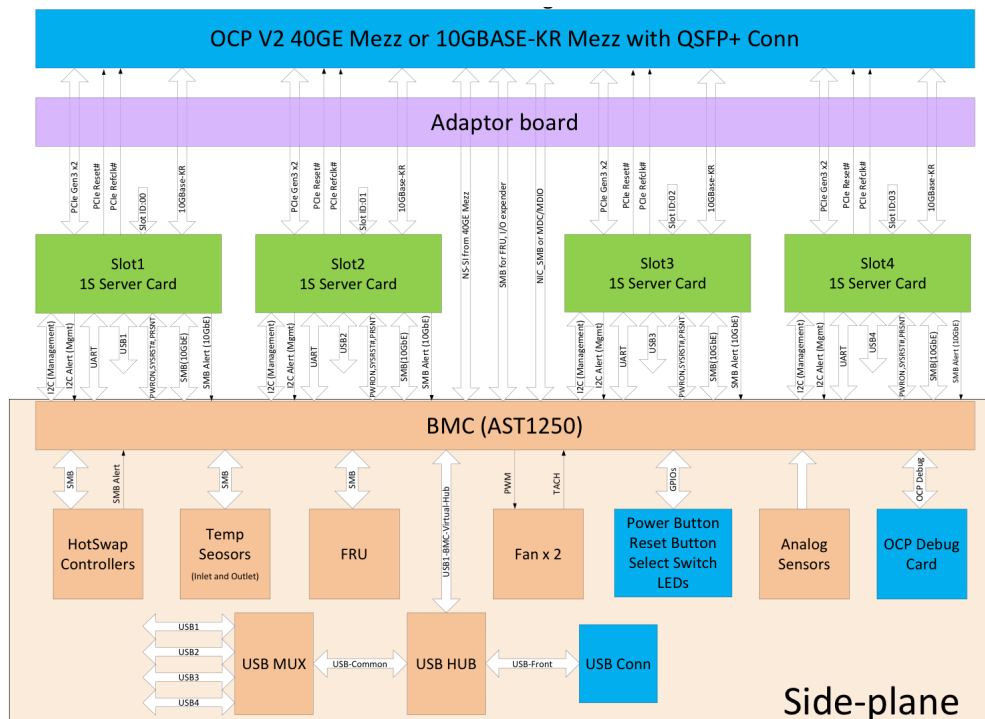


Figure 1 Yosemite Sled Block Diagram

#### 4. System Placement

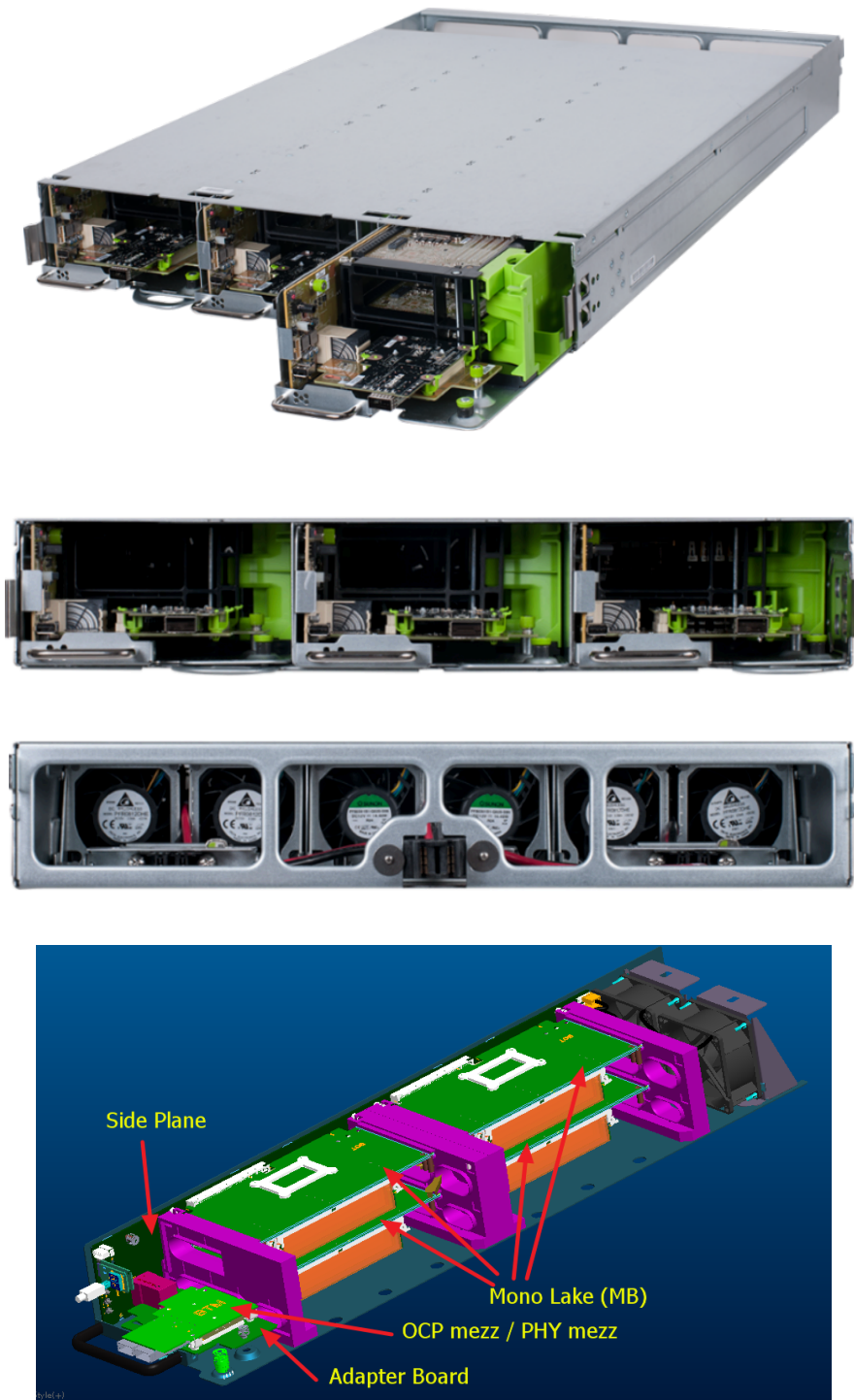
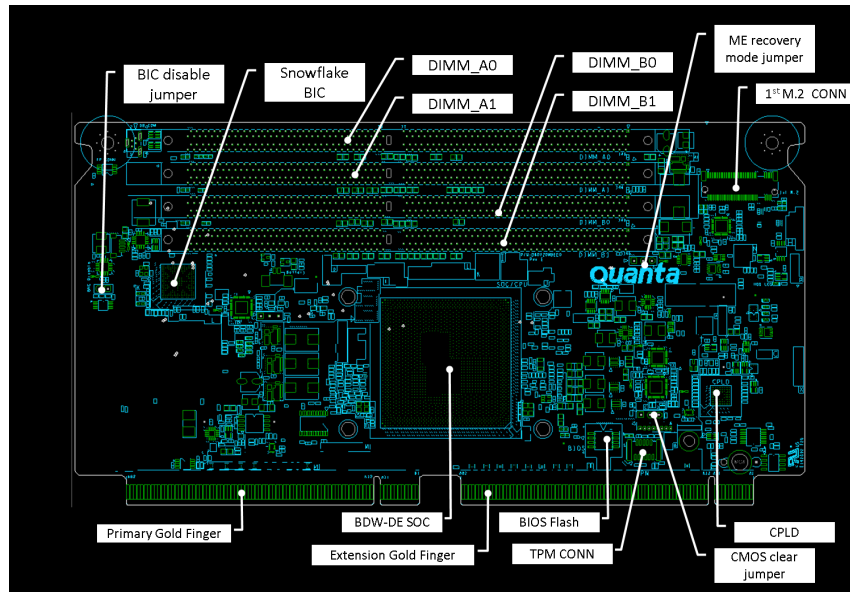


Figure 2 System Placement

## 5. Server Card Placement

The key part placement of Mono Lake 1S Server Card is shown as below:

Top side:



Bottom side:

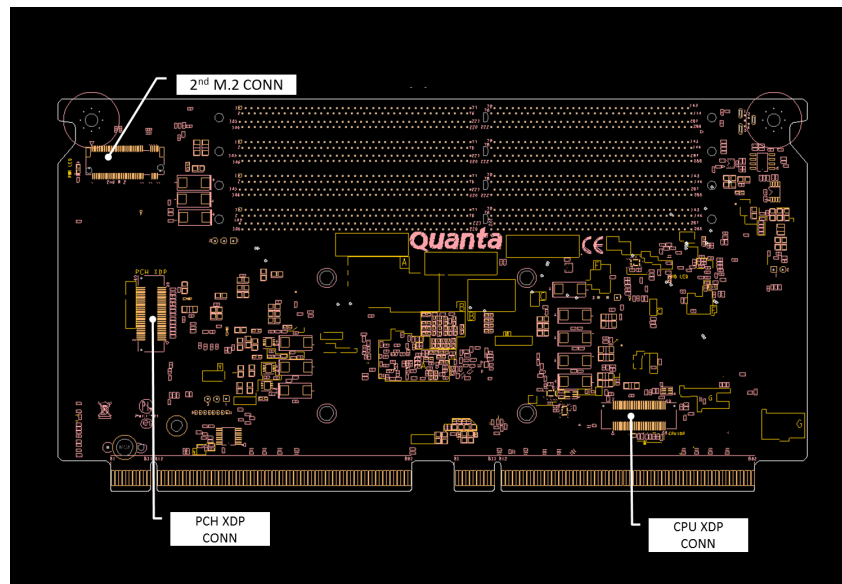


Figure 3 Mono Lake 1S Server Card Key Part Placement