

OPEN. FOR BUSINESS.



QCT's New Gen Offering For OCP & Olympus

Alan Chang/QCT

OPEN. FOR BUSINESS.



OCP U.S. SUMMIT 2018

March 20-21 | San Jose, CA

QCT SPEAKING SESSIONS

BOOTH

QCT's New Gen Offering for OCP and Olympus

0101011

QCT

Tuesday March 20 12:50pm - 1:05pm

Expo Hall Session / Hall 1

OCP Design for EIA Adoptions

Tuesday March 20 3:45pm - 4:10pm Executive Track / 210 EF Quanta QCT Project Olympus

Wednesday March 21 9:30am - 10:00am

Engineering Workshop: New Servers & GPUs / 210 F



Industry Trend – Data Fabric in Cold Aisle



QCT has the most OCP design Building Blocks deployed by CSPs This year, we are adding even MORE to an already rich product line









40°C* is stretch goal, 35°C is spec

Tioga Pass Overview

OCP Compute Server Refresh

Intel Next Generation Platform

- Supporting the latest and most powerful Intel[®]Xeon[®] Skylake-SP processor family

- Up to 1.5TB 2666 MHz DDR4 memory

Maximize Performance while Reducing Eco-footprint

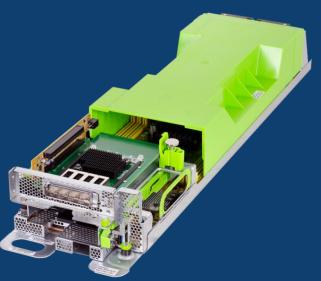
- Eco-Friendly completely Halogen free board and component design

Uniform Scale-up and Scale-out Building Block

- Scale out on Capacity and Computing

High Reliability, Serviceability and Availability

- Incredible level of business continuousness
- Air Cooling thermal design for existing infrastructure
 - Support up to 165W processor TDP with ambient operating temperature of up to 40°C* to reduce operating costs





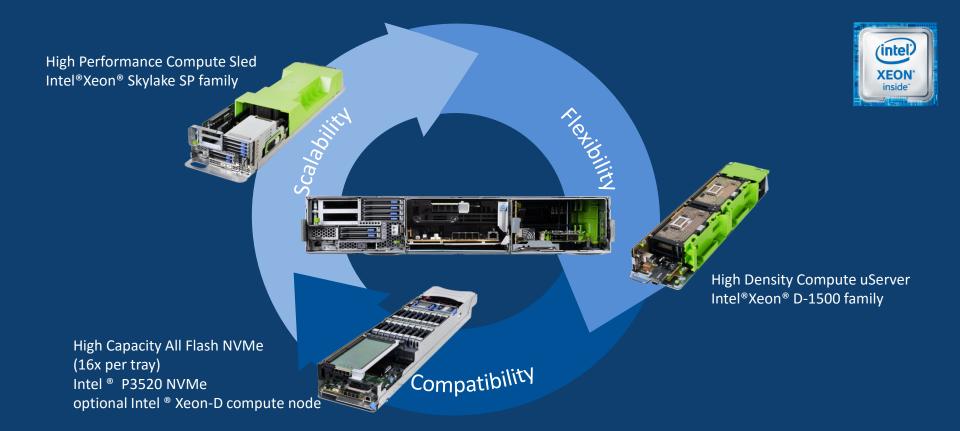
Tioga Pass Chassis Overview

Uniform Modular Design as Previous Generation



Modular Infrastructure Allows Simplicity and Flexibility add or remove building blocks as needed

One Infrastructure with Wide Application Coverage



Yosemite v2



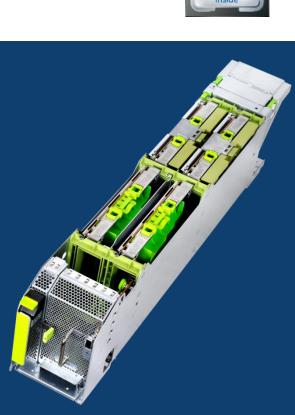
Open Compute Project Microserver Up to 4 Xeon® D-2100 Family SOC per Sled* Up to 18 NVMe M.2 per Sled* Up to 16 Nodes In 40U Rackmount



* Depends on module configuration

Yosemite v2 Multi-Node, Multi-Sled Microservers

- High-end Performance at Low-end power consumption
 - Supporting the Intel[®] Xeon[®] Skylake-D Processor family
 - Up to 128G 2666MHz DDR4 memory
- Glacier Point Module Support
 - (6) M.2 per board for up to 12x NVMe/SATA per sled
- Multi-Host Networking Aggregation
 - SuperNIC supports (4) Node I/O aggregation
- Ultra Dense Chassis Design
 - High density 40U 4 Sled for total of 16 node high density design



Yosemite v2 Front View







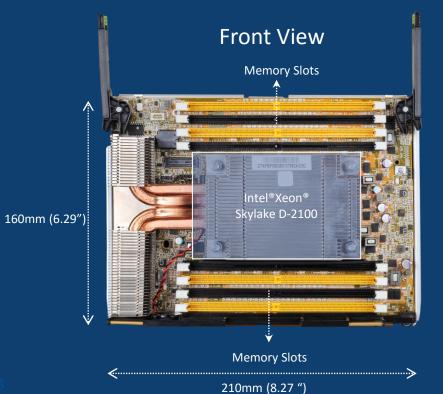


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Yosemite v2 Modules

Twin Lakes Motherboard







Yosemite v2 Modules

Flexible Workload Modules – Glacier Point



Glacier Point Module:

- Increase cache/storage capacity
- 6x PCIe M.2 SSD* adaptor

160mm (6.29")



Yosemite v2 Modules

Flexible Workload Modules – Crane Flat



Crane Flat Module: Increase network bandwidth with 100Gb OCP mezzanine *

160mm (6.29")

A



* Replaces a Twin Lake compute module

210mm (8.27 ")

Yosemite v2

CPU: 1x Intel[®] Xeon Skylake-D 2100 SOC (up to 105W TDP) per Node
DIMM slots: 8x 2666MHz DDR4 RDIMM per Node
Storage: 1x 2280 SATA/PCIe M.2 per Node 2x 22110 PCIe M.2 per Node
Expansion Modules (up to 2 per sled):
Glacier Point: 6x 22110 PCIe M.2 SSD
Crane Flat: 1x PCIe x16 3.0 OCP Mezzanine NIC







Big Sur Refresh with Intel[®] Xeon Scalable Processor Motherboard Also refreshed with V100 GPU card support





Big Sur Refresh



СТ

Rackgo X Big Sur Refresh



Open Compute Project GPU server

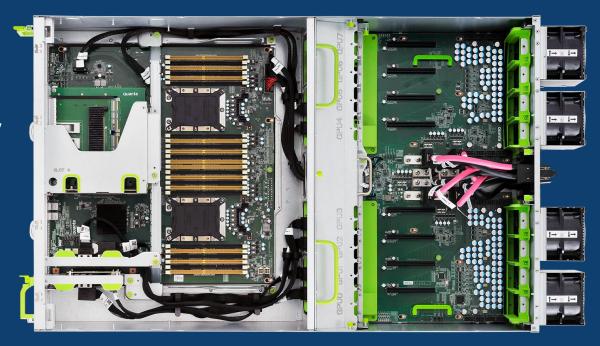
Up to 2 Intel[®] Xeon[®] Scalable Processor Up to 4 onboard PCIe/SATA M.2 Up to 8 Dual-Width PCIe Gen 4 GPUs Up to 24 Memory Modules



Truly Dedicated to OCP Philosophy



 MB will contribute back to community for upgrade
 PCIe Gen4 GPU baseboard PoC



Rackgo X Big Basin with V100 Refresh



Industry First JBOG with NVLink Support Up to 8 Nvidia Tesla P100/V100-SXM2 modules Up to 4 PCIe Host uplink/downlink slots Up to 116 TFLOPs in FP32 throughput



Rackgo X Big Basin

Execute Deep Learning Algorithms Like Never Before

Industry First JBOG – Just a Bunch of GPUs

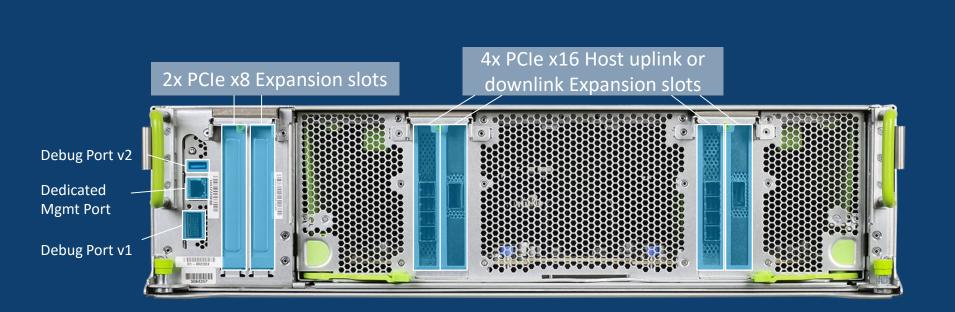
- The first ever pure GPU enclosure design with SXM2 support
- Host up to 8 Tesla P100/V100-SXM2 via NVLink interconnect
- NVLink Enabled Architecture
 - High-bandwidth, energy-efficient interconnect for ultra-fast communication
- Flexible GPU ratios (8x SXM2) for Specific Workloads
 - Deep Learning SKU :
 - Business Analytics (BA) SKU : 2x host with 4x SXM2 each

1x host with 8x SXM2 2x host with 4x SXM2 each



Big Basin Front View





Big Basin Top View





We are also adding Project Olympus DX-88 to our line up.





DCP Summ