



QCT Rackgo X Leopard Cave

2019/05/03

Agenda

- Product Overview
- Mechanical Overview
- High Level Features
- Base Board Block Diagram
- Design Files Contribution
- Available Products in OCP Marketplace

Overview

- Introduction

- Leopard Cave, an ORv2 compliant multi-node compute system; powerful dual Intel®Xeon® E5-2600 v3, v4 processors with 16 slots of DDR4 DIMM provide impressive high-density computing resources in each node that can handle multiple events concurrently

- Contributions

- Design Collateral

- Specification Reference

- Facebook Server Intel Motherboard v3.0



Leopard Cave Chassis Mechanical Overview



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

Leopard Cave High Level Features-

1x LFF SKU as Example

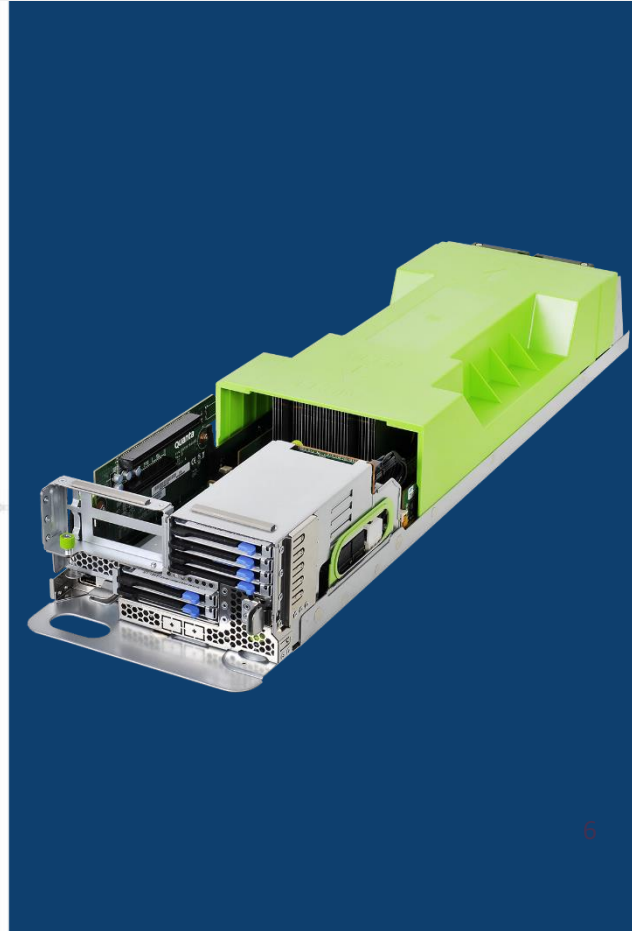
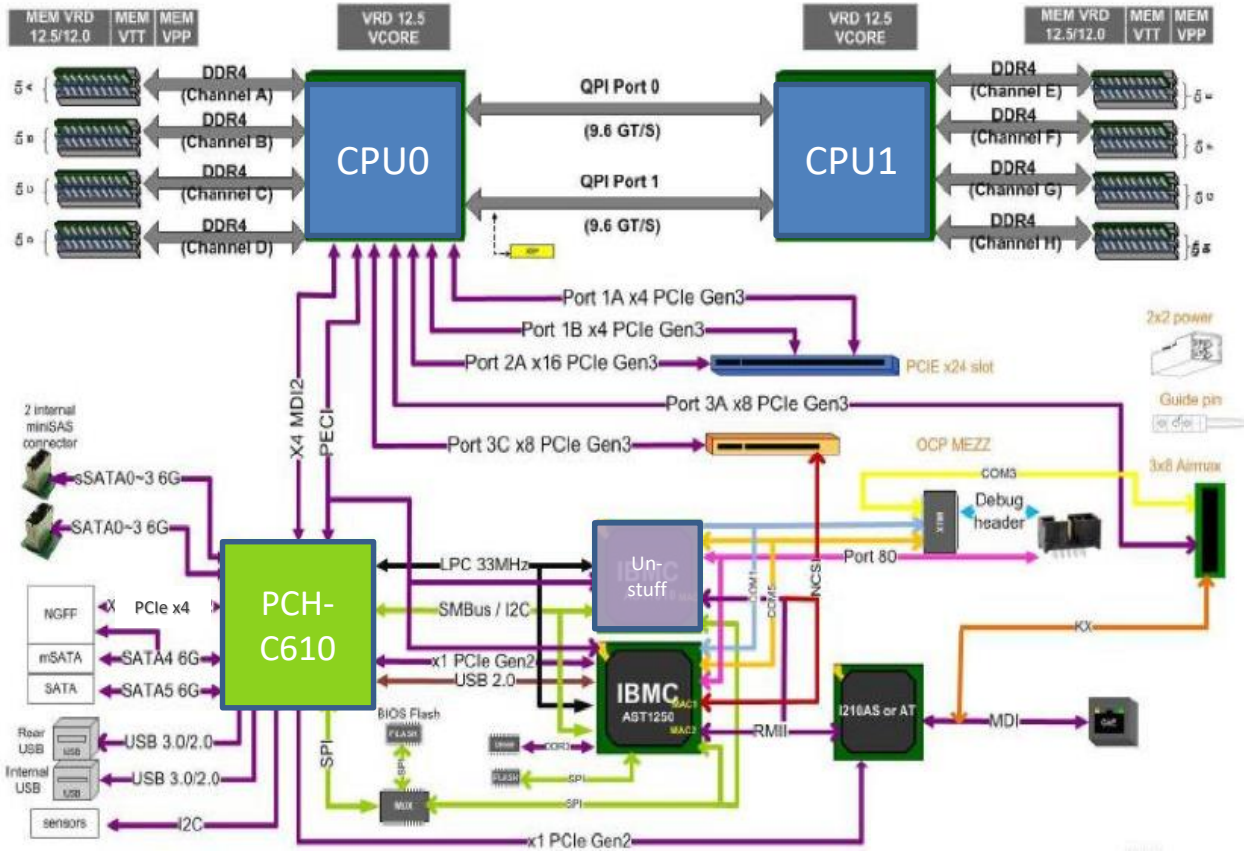
Processor	
Processor Type	Intel®Xeon® processor E5-2600 v3 product family Intel®Xeon® processor E5-2600 v4 product family
Number of Processors	2 Processors
Storage	
Storage	(1) 3.5" fixed drive bay per node
Dimensions	
W x H x D (mm)	537 x 93.2 x 853
Chipset	
Chipset	Intel® C610
Expansion Slot	
Expansion Slot	(1) PCIe Gen3 x8 OCP mezzanine card per node (1) PCIe Gen3 x16 FHHL PCIe card per node (1) PCIe Gen3 x8 FHHL PCIe card per node
Memory	
Total Slots	16 (per node)
Capacity	Up to 512GB of memory for RDIMM per node Up to 1024GB of memory for LRDIMM per node
Memory Type	2133/2400 MHz DDR4 RDIMM

Front I/O	
Front I/O	(1) USB 3.0 per node (1) 1GbE RJ45 management port per node (1) RS232 serial port per node
Storage Controller	
Onboard	Intel® C610: (6) SATA 6Gb/s ports SATA RAID 0, 1, 10
Fan	
Fan	(2) Single rotor fan per node
Video	
Video	Integrated AST2400 with 8MB DDR3 video memory
System Management	
System Management	Option 1: AST1250 Option 2: AST2400 IPMI v2.0 Compliant, on board "KVM over IP" support Quanta Datacenter Manager 2.0/QDCM 2.0 (Optional)
TPM	
TPM	Yes With TPM 1.2/ 2.0 Option

Base Board Block Diagram

SYSTEM BD SUPER SET

6.5"x 20"



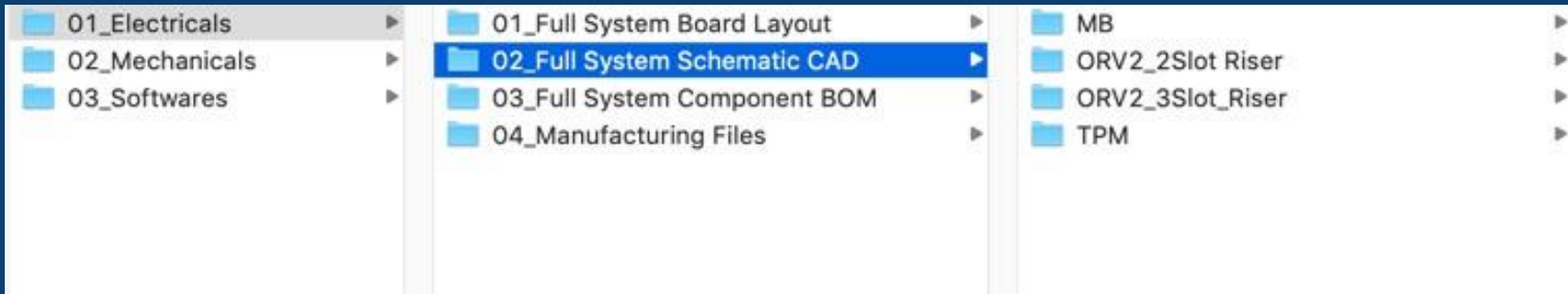
Design Files Contribution-

01_Electricals

➤ 01_Full System Board Layout



➤ 02_Full System Schematic CAD



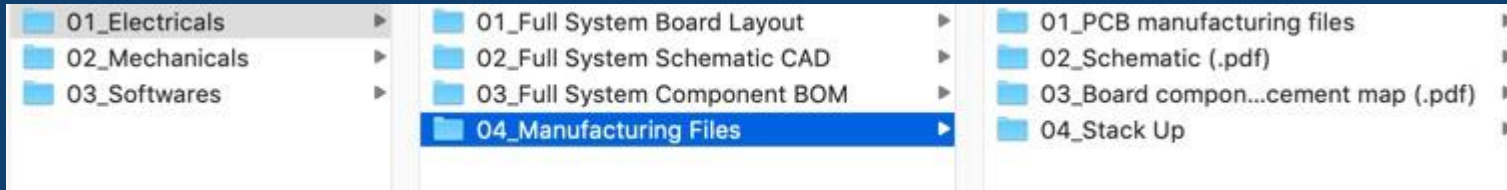
Design Files Contribution-

01_Electricals

➤ 03_Full System Component BOM



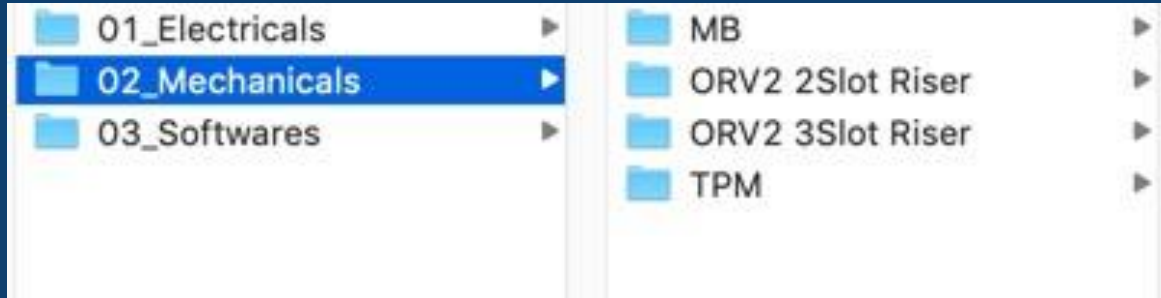
➤ 04_Manufacturing Files



Design Files Contribution-

02_Mechanicals

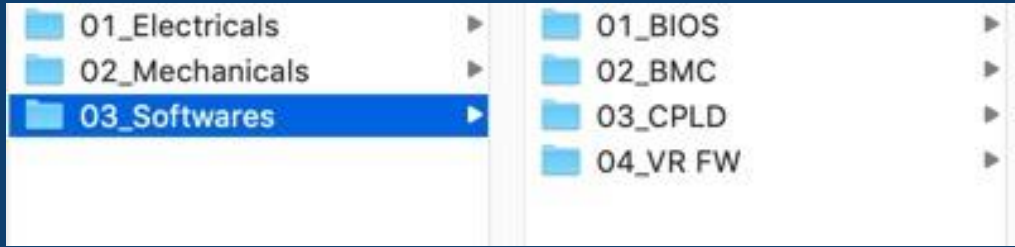
➤ Mechanical Step File



Design Files Contribution-

03_Software

➤ Software File



Available Products in OCP Marketplace

- <https://www.opencompute.org/products/114/qct-rackgo-x-leopard-cave-1-large-form-factor>
- <https://www.opencompute.org/products/136/qct-rackgo-x-leopard-cave-6-small-form-factor>

QCT Rackgo X Leopard Cave (1 Large Form Factor)

An Open Rack v2 compliant multi-node compute system that provides impressive high-density computing resources in each node that can hand...

Solution Provider: Quanta Cloud Technology

Part #: Rackgo X Leopard Cave 1F06ZZZ0STT

[Specifications](#)

QCT Rackgo X Leopard Cave (6 Small Form Factor)

An Open Rack v2 compliant multi-node compute system that provides impressive high-density computing resources in each node that can hand...

Solution Provider: Quanta Cloud Technology

Part #: Rackgo X Leopard Cave 1F06ZZZ0STU

[Specifications](#)



Thanks!!!