

QxStack

with Red Hat
OpenStack Platform



Validated OpenStack Solution with QxStack Auto-Deployment Tool

QxStack with Red Hat OpenStack Platform is a co-engineered OpenStack infrastructure which is based on the Red Hat OpenStack Platform. It is developed for cloud service providers and enterprises who are seeking a robust, resilient, and highly available solutions in an OpenStack cloud environment.

- Validated solution with auto deployment tool for minimizing your time to value and set up cloud environments.
- High integration of Red Hat OpenStack Platform and Red Hat Ceph Storage on QCT hardware reinforces operational agility and scalability.
- High availability reduces business downtime and risk of data-loss on mission-critical applications.
- QxStack with Red Hat OpenStack Platform is suitable for business using scenarios:
 - SDN/NFVi
 - Platform as a Service
 - Hybrid Cloud
 - Containers
 - Virtual Machines
 - Bare Metal

Automation for Efficiency

In order to hasten the complicated OpenStack set-up process, QCT developed its own "QxStack Auto-Deployment Tool" by utilizing Ansible. By using Ansible Playbook, all prerequisites including networking, storage and some other custom settings for the overcloud deployment can be easily done to speed up the process of installation. This auto-deployment tool not only enhances agility but also minimizes the time to build a cloud.

Integration of Red Hat Ceph Storage

QxStack with Red Hat OpenStack Platform on QCT hardware, integrated with Red Hat Ceph storage; provides users with a highly versatile storage backend. Red Hat Ceph Storage is a distributed object storage with extraordinary reliability and scalability. We aim to provide an all-inclusive, highly integrated solution for lower CAPEX and OPEX.

Reliability of the Turnkey Cloud

QxStack with Red Hat OpenStack Platform features high availability (HA) on OpenStack platform. QCT also provides additional HA function on the network level. QxStack with Red Hat OpenStack Platform is a reliable solution proven to have high failure tolerance to reduce business downtime and data-loss risk, keeping OpenStack environments up and running with strong reliability.

Validation of the Optimized Solution

Working on a series of validation tests, including OpenStack Tempest¹ for functionality and OpenStack Rally¹ for load tests, QCT verified the operational status of OpenStack APIs. QxStack with Red Hat OpenStack Platform discovered fundamental bugs between deployments and evaluated the performance and stability of a production environment under comprehensive stress tests.

State-of-the-Art Technology

Every OpenStack version is released around a 6-month cycle, which could cause inconveniences for administrators to manage their cloud. QxStack with Red Hat OpenStack Platform is aligned with Red Hat OpenStack release cycles, to enhance life cycle management that ease the pressures that come with new software updates.

About QCT

Quanta Cloud Technology (QCT) is a global datacenter solution provider. We combine the efficiency of hyperscale hardware with infrastructure software from a diversity of industry leaders to solve next-generation datacenter design and operation challenges. QCT serves cloud service providers, telecoms and enterprises running public, hybrid and private clouds.

Product lines include hyper-converged and software-defined datacenter solutions as well as servers, storage, switches, integrated racks with a diverse ecosystem of hardware component and software partners. QCT designs, manufactures, integrates and services cutting edge offerings via its own global network. The parent of QCT is Quanta Computer, Inc., a Fortune Global 500 corporation.

References: https://github.com/QCT-QxStack/QxStack_with_RedHat_OpenStack_Platform



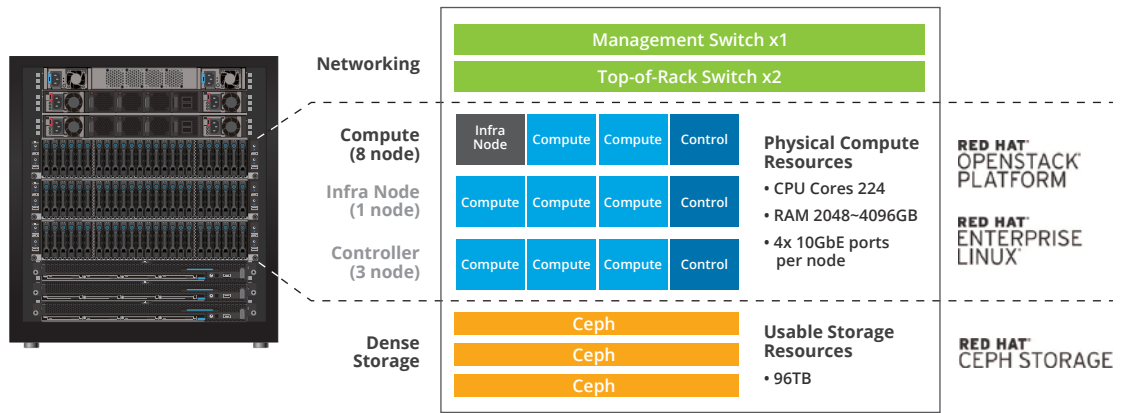
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Found at: www.QCT.io/wheretobuy

Specifications



Reference Architecture



Found at:
www.QCT.io/wheretobuy

United States
QCT LLC., Silicon Valley office
1010 Rincon Circle, San Jose, CA 95131
TOLL-FREE: 1-855-QCT-MUST
TEL: +1-510-270-6111
FAX: +1-510-270-6161
Support: +1-510-270-6216

China
云达科技, 北京办公室
(Quanta Cloud Technology)
北京市朝阳区东大桥路 12 号润诚中心 2 号楼
TEL: +86-10-5920-7600
FAX: +86-10-5981-7958

云达科技, 杭州办公室
(Quanta Cloud Technology)
浙江省杭州市西湖区古墩路浙商财富中心
4 号楼 303 室
TEL: +86-571-2819-8650

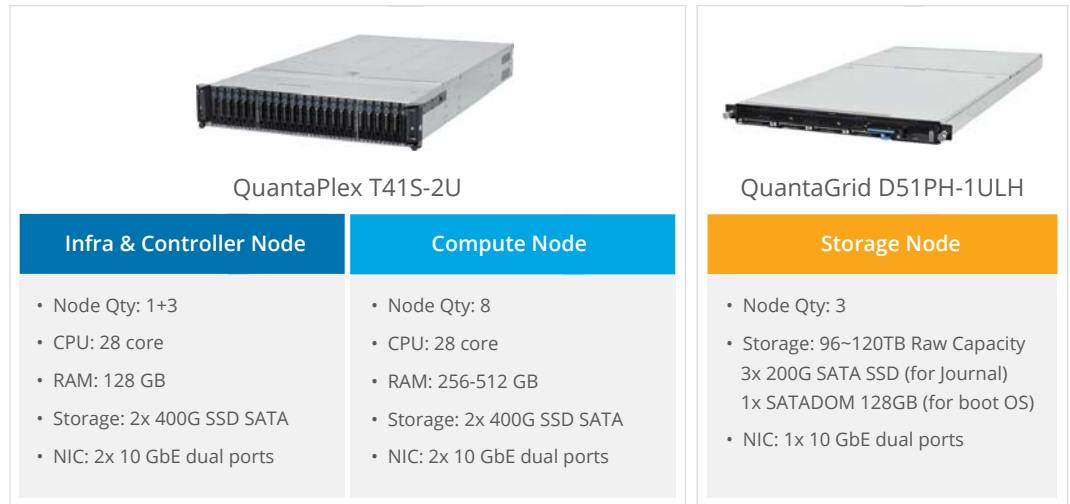
Japan
Quanta Cloud Technology Japan 株式会社
日本国東京都港区芝大門二丁目五番八号
牧田ビル 3 階
TEL: +81-3-5777-0818
FAX: +81-3-5777-0819

Taiwan
雲達科技 (Quanta Cloud Technology)
桃園市龜山區文化二路 211 號 1 樓
TEL: +886-3-286-0707
FAX: +886-3-327-0001

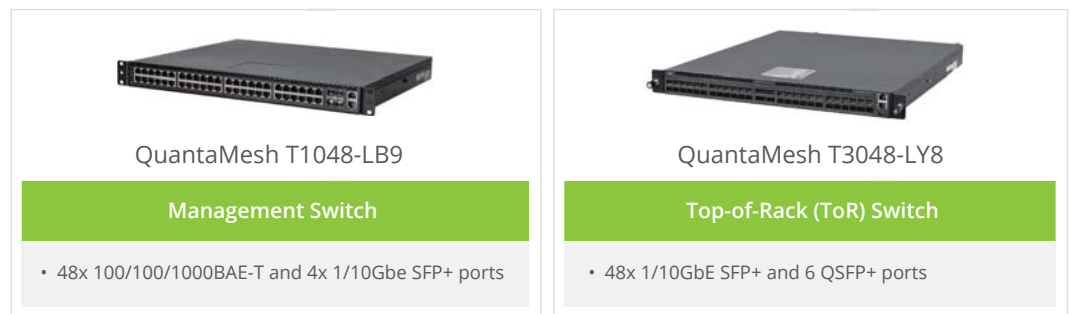
Germany
Quanta Cloud Technology Germany GmbH
Hamborner Str. 55, 40472 Düsseldorf
TEL: +49-2405-4083-1300

Other regions
Quanta Cloud Technology
No. 211 Wenhua 2nd Rd., Guishan Dist.,
Taoyuan City 33377, Taiwan
TEL: +886-3-327-2345
FAX: +886-3-397-4770

Recommended Minimum Specification



Optional offering - Networking Switch



QCT authorized partner

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