

# QCT QxStack Mirantis Unlocked Appliance for Cloud Native Applications



## A Turnkey Appliance to Simplify OpenStack Clouds

As IT organizations face increasing pressure to become more agile while also meeting the needs of end-users accustomed to public cloud services, the costs and reality of deploying private clouds can be challenging. OpenStack has emerged as the leading open cloud platform that not only enables large scale production-ready clouds but also drives down the Total Cost of Ownership (TCO) associated with on premises deployments.

QCT and Mirantis are bringing the best of cloud and converged infrastructure together to simplify OpenStack deployments and reduce the time-to-value of your private cloud, allowing you to focus on your business and your applications. Together our goal is to ensure the success of your OpenStack cloud, enabling you to achieve Agile IT.

### Features:

- Reduce time-to-deployment from months to a single day
- Reduce risk by standardizing on pre-validated QCT hardware configurations together with Mirantis OpenStack software
- Provide an elastic AWS-like experience to your developers — and scale production deployments of container-based applications
- Scale from 5 to 20 Compute nodes within a single rack appliance, and up to 43 Compute nodes in a fully configured two rack appliance

### A Turnkey OpenStack Rack-based Appliance

The QCT Mirantis Unlocked Appliance is a turnkey rack-based appliance designed to enable PaaS in an agile development process for a Dev/Test organization as well as the production IaaS used for the deployment of container-based applications. When developing and deploying cloud native applications at scale, the Unlocked Appliance can grow to accommodate the needs of your organization. By integrating the latest QCT servers and switches, together with Mirantis OpenStack, the guesswork and integration are eliminated from your deployment.

- Pre-tested and pre-validated by Mirantis and QCT
- Powered by the only pure-play OpenStack company
- Integrated and certified by QCT and Certified Rack Partners

### Key Benefits

With the QCT Mirantis Unlocked Appliance, you can:

- Reduce time-to-deployment from months to a single day with a turnkey rack-based appliance
- Minimize risk by standardizing on pre-validated QCT hardware configurations together with Mirantis OpenStack software
- Provide an elastic AWS-like experience to your developers — and scale production deployments of container-based applications
- Scale from 5 to 20 Compute nodes within a single rack appliance, and up to 43 Compute nodes in a fully configured two rack appliance



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## Appliance Features

The production-ready HA architecture enables flexible scale to accommodate your datacenter power footprint or to allow room for future growth:

Configurations - the 1 <sup>st</sup> Rack				
Foundation Nodes	3	3	3	3
Compute Nodes	5	10	15	20
Storage Nodes	3	4	6	8



### Networking

QuantaMesh T3048-LY8  
 QuantaMesh T1048-LB9

### Compute & Foundation Nodes

QuantaGrid D51B-1U

### Storage Nodes

QuantaGrid D51B-2U

Component	Description
Compute & Foundation Nodes	<ul style="list-style-type: none"> <li>QuantaGrid D51B-1U server with dual Intel® Xeon® E5-2670 v3 CPUs and 384GB memory</li> <li>3 Foundation nodes per appliance</li> <li>From 5 to 20 Compute nodes in a single rack appliance, in configurations of 5, 10, 15, or 20</li> <li>Maximum up to 43 Compute nodes in a dual rack appliance</li> </ul>
Storage Nodes	<ul style="list-style-type: none"> <li>QuantaGrid D51B-2U server with dual Intel® Xeon® E5-2630 v3 CPUs and 128GB memory, 24TB storage</li> <li>4 Intel® 200GB SSD DC S3710 for Ceph write journal acceleration</li> <li>From 3 to 8 Storage nodes in a single rack appliance</li> <li>Ceph distributed software defined storage</li> </ul>
Networking	<ul style="list-style-type: none"> <li>Data: 2 QuantaMesh T3048-LY8 switches w/ 48 10GbE SFP+ and 6 QSFP+ ports each</li> <li>Management: 1 QuantaMesh T1048-LB9 switch w/ 48 1000BASE-T and 4 10GbE SFP+ ports</li> <li>Open vSwitch software defined overlay networking</li> </ul>
OpenStack IaaS	<ul style="list-style-type: none"> <li>Mirantis OpenStack software with Fuel deployment management</li> <li>Ubuntu 14.04.1 and KVM</li> </ul>
Murano App Catalog	<ul style="list-style-type: none"> <li>Cloud Foundry, Docker or Kubernetes PaaS infrastructure</li> <li>Gerrit, Git and Jenkins agile development tools</li> </ul>

## About QCT

QCT (Quanta Cloud Technology) is a global datacenter solution provider extending the power of hyperscale datacenter design in standard and open SKUs to all datacenter customers.

Product lines include servers, storage, network switches, integrated rack systems and cloud solutions, all delivering hyperscale efficiency, scalability, reliability, manageability, serviceability and optimized performance for each workload.

QCT offers a full spectrum of datacenter products and services from engineering, integration and optimization to global supply chain support, all under one roof.

The parent of QCT is Quanta Computer Inc., a Fortune Global 500 technology engineering and manufacturing company.

<http://www.QCT.io>

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