QCT PRODUCT PORTFOLIO

Server | Storage | Networking Rack System | Solution

Found at: www.QCT.io/wheretobuy

QCT

Intel Inside[®]. New Possibilities Outside. Powered by Intel[®] Technology.



Contents

About QCT	2
QCT Cloud Solution Center	3
QCT Services and Support	4
QCT Systems	5

SERVER

	0
QCT 2 th Generation Server Platforms	8
QuantaGrid Series	9
QuantaMicro Series	13
QuantaPlex Series	14
QCT System Manager (QSM)	17
Rackgo R	18
QCT Accessories	20

STORAGE

QuantaVault Series	22

RACK SYSTEM

Open Compute Project	23
Rackgo X OCP Solution	24

NETWORKING

QuantaMesh Series	26
QuantaMesh Switch Accessories	29

SOLUTION

Specifications	36				
Data Analytic Platforms	35				
Software Defined Storage	33				
Enterprise Private Cloud	31				
Virtual Desktop Infrastructure					

About QCT

Quanta Cloud Technology (QCT) is a global data center solution provider that understands how important it is to help businesses solve next generation data center design and operation challenges. From fulfilling unique data center requirements to streamlining digital transformation, QCT provides end-to-end computing solutions to data centers and clouds.

QCT has a significant market presence and offers a full spectrum of data center products (complete servers, storage, network switches, rack systems) and services from engineering, integration and optimization to global supply chain support. QCT also has a wide array of hyper-converged and software-defined data center solutions to fit a full range of computing workloads. We provide customers not only early access to the latest innovations for faster time-tomarket, through our partnerships with leading technology partners, but also complete access to our QCT ecosystem which is designed and developed all under one roof.



Headquarters/Locations

QCT is headquartered in Taoyuan, Taiwan, with two offices in the United States (San Jose, CA; Seattle, WA); two in China (Beijing and Hangzhou); one in Germany (Düsseldorf); and one in Japan (Tokyo).

President/Leadership

Mike Yang is the president of QCT and senior vice president and general manager of the CCBU at Quanta Computer Inc. (Quanta).

Employees

QCT has more than 1,000 employees worldwide, that include engineers, developers, IT, designers, administrators, human resources, marketers, and sales staff all committed to leading data center transformation.

SOLUTION CENTRE A

QCT Cloud Solution Center

The QCT Cloud Solution Center works in conjunction with Quanta Computer, QCT, and our other software partners. Our leading-edge solutions and innovative technologies make it easy to deploy highly scalable cloud infrastructures. Just let us know your needs, and our engineers and solution providers will help you figure out which cloud solution is the best fit for you.

Hardware in the QCT Cloud Solution Center is powered by the latest Intel[®] Xeon[®] processor product family, and our storage solutions are equipped with Intel® Solid-State Drives to boost your data center capabilities to the next level in performance and reliability.

In addition to our platform for new products and solution development, the QCT Cloud Solution Center also provides a state-of-the-art environment for performance testing, benchmarking, and optimization.



QCT enables you to:

- · Discuss innovative solutions for deployment
- Explore and interact with tomorrow's technology
- Gain confidence to adopt leading-edge solutions
- Establish key industry partnerships



QCT Services and Support

As a prominent cloud hardware solution provider, we proudly stand behind our products by offering our customers the highest level of professional services and support.

- QCT's own service center
- QCT's authorized service partner
- Integration Center



QCT Services and Support is comprised of a basic package and flexible premium options for customers to select according to their needs.



* Service details may vary by country. Please contact your QCT local service center for more information.

QCT Systems

	HPC (GPU)	Enterprise	Cloud		
	Deep Learning/Oil&Gas/CAE/ In-memory Computing	Finance/Telco/Private Cloud/ERP	CSP/Hosting/CDN		
Skylake- SP/E7 4-socket	QuantaGrid Q72D-2U NVMe ssp-supported 2U 1Node P 10 QuantaGrid Q71L-4U NVMe ssp-supported 4U 1Node P 12	QuantaGrid Q72D-2U NVMe SD9-supported 2U 1Node P 10 QuantaGrid Q71L-4U NVMe SD9-supported 4U 1Node P 12			
Skylake- SP/E5 2-socket	Quanta Pilex T22SF-1UQuanta Cirid D51BV-2U10 ZNOREP 15Quanta Cirid D52BV-2GZU 1NOREQuanta Cirid D52BV-2GQuanta Cirid D52BV-2GQuanta Cirid D52BV-2GQuanta Pilex T41S-2UQuanta Pilex T42S-2GUQuanta Pilex T41SP-2GQuanta Pilex T42S-2GUQuanta Pilex T41SP-2GQuanta Pilex T42SP-2GQuanta Pilex T42SP-2GQuan	QuantaGrid D52B-1U, NWe SD-supportedQuantaGrid D51B-1U, NWe SD-supportedQuantaGrid D52B-2C, NWe SD-supportedQuantaGrid D51B-2U, NWe SD-supportedQuantaGrid D51B-2U, NWe SD-supportedQuantaGrid D51B-2U, NWe SD-supportedQuantaGrid D51B-2U, NWe SD-supportedQuantaGrid D51B-2U, NUR SD-supportedQuantaGrid D51B-2U, NWe SD-supportedQuantaGrid D51B-2U, NUR SD-supportedQuantaGrid D51B-2U, NMe SD-supportedQuantaGrid D51B-2U, NUR SD-supportedQuantaGrid D51B-2U, NMe SD-supportedQuantaGrid D51B-2U, NUR SD-supportedQuantaGrid D51B-2U, NMe SD-supportedQuantaGrid D51B-2U, Nur SD-supportedQuantaGrid D51B-2U, NMe SD-supportedQuantaGrid D51B-2U, Nur SD-supportedQuantaFlex T41SP-2U, Nur SD-supported <th>QuantaGrid D52B-1U, NWe ssD-supportedQuantaGrid D51B-1U, NUe ssD-supported1U INodeP 91U INodeP 10QuantaPlex T22SF-1UQuantaGrid D51PS-1UQuantaGrid D51PS-1U1U 2NodeP 15QuantaGrid D52BV-2U Net SSD-supportedQuantaGrid D51PS-1UQuantaGrid D52BV-2U NMe SSD-supportedQuantaGrid D51PC-1UQuantaGrid D51PC-1UQuantaPlex T42D-2U NMe SSD-supportedQuantaGrid D51PC-1UQuantaGrid D51PC-1UQuantaPlex T42D-2U NMe SSD-supportedQuantaGrid D51PC-1UQuantaGrid D51PC-1UQuantaGrid D52G-4U NMe SSD-supportedQuantaGrid D51PC-1UQuantaGrid D51PC-1UQuantaGrid D52G-4U NUed SSD-supportedQuantaGrid D51PC-1UQuantaGrid D51PC-1UQuantaGrid D52G-4U NUed SSD-supportedQuantaGrid D51PC-1UQuantaGrid D51PC-1UQuantaGrid D51PC-1U QuantaGrid D51PC-1UQuantaGrid D51PC-1UQuantaGrid D51PC-1UQuantaGrid D51PC-1U QuantaGrid D51PC-1UQuantaGrid D51PC-1UQuantaGrid D51PC-1UQuantaGrid D51PC-1U QU</br></br></br></br></br></br></br></br></br></br></br></th>	QuantaGrid D52B-1U, NWe ssD-supportedQuantaGrid D51B-1U, NUe ssD-supported1U INodeP 91U INodeP 10QuantaPlex T22SF-1UQuantaGrid D51PS-1UQuantaGrid D51PS-1U1U 2NodeP 15QuantaGrid D52BV-2U Net SSD-supportedQuantaGrid D51PS-1UQuantaGrid D52BV-2U NMe SSD-supportedQuantaGrid D51PC-1UQuantaGrid D51PC-1UQuantaPlex T42D-2U NMe SSD-supportedQuantaGrid D51PC-1UQuantaGrid D51PC-1UQuantaPlex T42D-2U NMe SSD-supportedQuantaGrid D51PC-1UQuantaGrid D51PC-1UQuantaGrid D52G-4U NMe SSD-supportedQuantaGrid D51PC-1UQuantaGrid D51PC-1UQuantaGrid D52G-4U 		
E3 1-socket			QuantaGrid S31A-1U QuantaMicro X10E-9N 1U 1Node P11 3U 9Node P13		
Xeon D 1-socket					
Xeon PHI [™]	QuantaPlex S41T-2U Intel [®] Xeon Phi [®] Processors 2U 4Node P15				
JBOD	QuantaVault JB2240 P 22	QuantaVault JB2240 P 22 QuantaVault JB2720 P 22 P 22 P 22 P 22 P 22 P 22 P 22	QuantaVault JB2240 P 22 QuantaVault JB2720 QuantaVault JB2720 P 22 P 22 P 22 P 22		
Rack System	Rackgo R Rackgo X P18 P24		Rackgo R Rackgo X Р18 Р24		

5

Big Data	Density Optimized	Storage	NVMe		
Hadoop/Ceph/Spark/ Big Data Analytics	Energy and Space Efficiency	Hybrid, Scale-out SAN/NAS, Software-Defined Storage	Extreme IOPS per Dollar		
QuantaGrid Q72D-2U QuantaGrid Q71L-4U NVMe SSD-supported NVMe SSD-supported 2U 1Node P 10			QuantaGrid Q72D-2U NVMe SSD-supported NVMe SSD-supported 2U 1Node P 10		
QuantaGrid D51PS-1U 1U 1Node P11 QuantaGrid D51PC-1U 1U 1Node P11 QuantaGrid D51PH-1ULH 1U 1Node P12 QuantaGrid D52T-1ULH 1U 1Node P10 QuantaPlex T21P-4U QuantaPlex T21P-4U QuantaGrid D51PL-4U QuantaGrid D51PL-4U	QuantaPlex T22SF-1U QuantaPlex T41S-2U 1U 2Node P15 QuantaPlex T42S-2U QuantaPlex T42S-2U 2U 4Node P14 QuantaPlex T42SP-2U NVMe SSD-supported QuantaPlex T42SP-2U QuantaPlex T42SP-2U NVMe SSD-supported 2U 4Node P16 QuantaPlex T42SP-2U QuantaPlex T42SP-2U QuantaPlex T42SP-2U NVMe SSD-supported QuantaPlex T42SP-2U QuantaPlex T42D-2U QuantaPlex T42D-2U NVMe SSD-supported P15 QuantaPlex T42D-2U QuantaPlex T42D-2U VMMe SSD-supported P15 QuantaPlex T42D-2U NVMe SSD-supported QuantaPlex T42D-2U NVMe SSD-	QuantaGrid D52BQ-2U WME S5D-supported 2 U 1Node P 9 10 NVME S5D QuantaGrid D52T-1ULH QuantaGrid D52T-1ULH QuantaGrid D52T-1ULH 12LFF + 4SFF QuantaGrid D51B-2U NVME S5D-supported 2 U 1Node P 10 12LFF + 4SFF QuantaGrid D51B-2U NVME S5D-supported 2 U 1Node P 11 12 LFF / 24 SFF QuantaGrid D51PH-1ULH 11 Node P 12 12LFF + 4SFF QuantaGrid D51PH-1ULH 12 LFF + 4SFF QuantaGrid D51PH 12 LFF + 4SFF QuantaGrid D51PH 12 LFF + 4SFF QuantaGrid D51PH 12 LFF + 4SFF QuantaGrid D51PH 12 LFF + 4SFF 12 LFF + 4SFF +	QuantaGrid D52B-1U, NVMe SSD-supported 1U 1Node P9 QuantaGrid D52BQ-2U, NVMe SSD-supported QUantaGrid D52BQ-2U, NVMe SSD-supported QUINode P9 QuantaGrid D52BV-2U, NVMe SSD-supported 2U 1Node P10 QuantaPlex T42SP-2U, NVMe SSD-supported 2U 4Node P14 QuantaPlex T41SP-2U, NVMe SSD-supported QU 4Node P15 QuantaGrid D52G-4U, NVMe SSD-supported QUANTAPlex T41SP-2U, NVMe SSD-supported QU 4Node P15 QuantaGrid D52G-4U, NVMe SSD-supported QU1Node P10		
	QuantaMicro X10E-9N 3U 9Node P13				
QuantaGrid SD1Q-1ULH 1U 1Node P 12		QuantaGrid SD1Q-1ULH 10 1Node P 12 12 LFF + 4 SFF			
	QuantaPlex S41T-2U Intel [®] Xeon Phi [®] Processors 2U 4Node P 15				
QuantaVault JB4602 P 22 P 22 P 22	QuantaVault JB4602 P 22 P 22 P 22	QuantaVault JB2240 QuantaVault JB2720 72 SFF P 22 72 SFF P 22 QuantaVault JB4602 QuantaVault JB4242 60 LFF P 22 24 LFF + 8 SFF P 22	QuantaVault JB2240 P 22		
	Rackgo R Rackgo X P18 P24		Powered by Intel® Xeon® processors		

* All specifications and figures are subject to change without prior notice.

Networking

	Spine Switch – Fiber QuantaMesh T5032-LY6 P 26	4 ∎ encoderan sens tensi № ∎ 4 QuantaMesh T7032-IX1/IX1B P 26
	Leaf Switch – Fiber	Leaf Switch – Copper
C D D D D D D D D D D D D D D D D D D D		QuantaMesh T3048-LY9A P 27
d Ban	• QuantaMesh T4048-IX2 P 27	QuantaMesh T3048-LY9 P 28
dwidt		QuantaMesh T3040-LY3 P 28
5	QuantaMesh T3048-LY8 P 27	Management Switch
	QuantaMesh T 3048-LY7 P 27	QuantaMesh QuantaMesh T1048-LB9 P 28 T1048-LY4R P 28
	QuantaMesh QuantaMesh T3048-LY2R P 27	QuantaMesh T1048-LY4A/B P 28
	QuantaMesh QuantaMesh T3048-LY2R P 27 T3024-P05 P 27	QuantaMesh T1048-LY4A/B P 28

Features

QCT 2nd GENERATION SERVER PLATFORMS

The Foundation for Today & Tomorrow's Mission-critical Workloads



Intel[®] Xeon[®] Scalable Processors

Powering Tomorrow's Computing Frontiers

Our new milestone platforms are powered by the latest Intel[®] Xeon[®] Scalable Processors, boasting significant upgrades to performance, acceleration, bandwidth, and connectivity from the last generation. In addition to leveraging these upgrades, we've introduced redesigns and innovations down to the smallest detail to deliver the next tier of computational performance in all of our 2nd Generation Server Platforms*.



SUPER FAST NVMe SSDs

The QCT 2nd Generation Server platforms widely utilizes the latest generation NVMe SSDs in place of SATA drives in a variety of forms, multiplying the platform's speed and performance exponentially to deliver the fastest bandwidth, greater IOPS, and lower latency.



ADVANCED COOLING

Thoughtfully engineered thermal designs increase the efficiency and stability of cooling subsystems, delivering the most precise CFM and power required while minimizing power consumption at peak performance.



TOOL-LESS DESIGN

Out of the many build designs QCT has tested over the years, our oneclick innovations provide the greatest efficiency and quickest time-to-value. This no-screw, one-touch feature is applied on every device to reduce operational error, service time and resource cost, from component all the way up to data center level, immensely boosting data center uptime.



MAX POWER SAVINGS

Following advanced new energy standards, the QCT 2nd Generation server platforms delivers power at an all-time-high conversion rate with minimal energy loss, this translate to a 70% power conversion loss savings.

DATA CENTER MANAGEMENT CONSOLE

QSM, an intuitive hyperscale data center management console, makes monitoring and managing QCT hardware easy. Consolidate and remotely manage up to 5000 nodes across computing, storage and networking systems in the architecture.

*QCT 2nd Generation Server Platforms are not a new entry into the server market. Prior to the launch of QCT in 2012 to expand Quanta's market reach and become a direct server vendor. Quanta Computer Incorporated, QCT's parent company, had been designing and manufacturing servers, storage, and networking gear to hyper-scale clients for many years.

QuantaGrid Series

QCT offers a comprehensive line of high-performance, rackmount, single-node servers, ideal for granularity and capable of tackling a variety of modern data center workloads. From enterprises to cloud service providers, the QuantaGrid series delivers optimized performance and astonishing user experience with the most advanced industrial technologies and thoughtful engineering designs.





- Versatile, Single-Node Computing Servers
- Low Power Consumption While Delivering High Operating Performance
- Modularized Components that Increase Serviceability and Configuration Flexibility
- Designed with High Availability and Reliability to Protect Business Critical Applications

QuantaGrid **D52B-1U**



Cintel XEON PLATINUM Inside

QuantaGrid D52B-1U is a general-purpose rackmount server designed for optimal performance and power efficiency. It is based on the dual Intel[®] Xeon[®] Scalable Processors (Codename Skylake) and features up to 3 TB memory capacity in a 1U chassis.



QuantaGrid **D52BQ-2U**



Scale Along with Your Business

QuantaGrid D52BQ-2U is a general-purpose rackmount server designed for optimal performance and power efficiency. It is based on the dual Intel[®] Xeon[®] Scalable Processors (Codename Skylake) product family and features up to 3 TB memory capacity in a 2U chassis.



QuantaGrid D52BV-2U



Accelerated Supercomputing Performance

This option with up to four dual-width 10.5 inch accelerators/GPUs combined with both 24 DIMM slots and four NVMe SSDs makes the D52BV-2U the best candidate to easily execute demanding parallel computing applications such as Higher Performance Computing (HPC), Virtual Desktop Infrastructure (VDI), and deep learning.



QuantaGrid D52G-4U



High Density GPU Server

With support from ten double-width FHFL accelerators/ GPUs to twenty single-width accelerators with optional 4x100Gb/s high bandwidth network, the D52G-4U represents the most scaled-up solution with high scale out capabilities for conquering any compute intensive workloads such as training/inference in deep learning and High Performance Computing (HPC).



QuantaGrid **D52T-1ULH**

The Revolution of Hyper-Converged Storage



QuantaGrid D52T-1ULH is the densest 1U storage server with 12 HDDs and 4 NVMe SSDs. The hybrid architecture enhances overall caching performance, making the D52T-1ULH the ideal platform for software-defined storage.



QuantaGrid Q72D-2U



4-socket Dense Memory Compute Server

QuantaGrid Q72D-2U is a 2U 4-socket system that supports the latest Intel[®] Xeon[®] Scalable Processors (Codename Skylake) with 48 DIMMs of DDR4 memory and 16 U.2 Drives. Optimized for price/performance, this adaptable infrastructure is widely flexible for modern workloads.





QuantaGrid D51PL-4U



World Class Density Storage Server Ever

QuantaGrid D51PL-4U, the storage server with the highest storage density in the world, has 102 HDDs bays. Users get over 1PB in a 4U space, which means they can get 325% more storage space in comparison to legacy 4U storage servers.



Form	CPU	Memory
Factor	Number	Number
4U	2	16

QuantaGrid **D51B-1U**

Full-Featured Energy Efficient 2-Socket Server

The extremely versatile and fully featured D51B-1U adapts to an immense spectrum of applications, delivering great density and high productivity in only 1U of rack space.





QuantaGrid D51BP-1U

Energy Efficient 2-Socket Server with Extreme Storage IOPS

As a revolutionary 1U all-flash array, the D51BP-1U targets the most intensive workloads that require high IOPS and low latency.



QuantaGrid **D51PS-1U**

Powerful Compact 2-Socket Server

Compacting the worldwide top-performing computing power into a 1U chassis, the D51PS-1U is most ideal for front-end web, data-caching, and search engine applications.



QuantaGrid **D51PC-1U**

Versatile Compact 2-Socket Server

With uncompromised performance delivered in an ultradense 1U chassis, the D51PC-1U successfully maximizes data center efficiency.

QuantaGrid S31A-1U

Energy Efficient, Compact 1U Architecture Envisioned for Performance and Large Storage Capacity in Space-Constrained Data Centers

Unprecedented design equipped with flexibility for superfast boot-up and cache tailored for predictable workloads such as dedicated web hosting.





QuantaGrid **D51B-2U**

Full-Featured Energy Efficient 2-Socket Server

With powerful processors, large memory and high disk capacity, the D51B-2U is fully optimized for tackling a wide domain of workloads from real-time modeling to virtualization.



QuantaGrid **D51BV-2U**



Energy Efficient 2-Socket GPU/ Xeon Phi[™] Server

The option for up to two FHFL accelerators/GPUs makes the D51BV-2U the best candidate to handle the most demanding environments, such as Virtual Desktop Infrastructure (VDI) or High Performance Computing (HPC).



QuantaGrid Q71L-4U

Powerful Enterprise Grade 4U 4-Socket Server with Unprecedented RAS and Scalability

The epitome of enterprise class computing performance, this 4 socket 4U design supports up to 96 DIMM sockets. This is a superior computing server that delivers exceptional RSA with high I/O throughput, expandability, efficiency and scalability.



QuantaGrid **SD1Q-1ULH** Storage Server

Balanced Computing Performance with Low Power Consumption

Effectively achieving outstanding performance on a small power budget, SD1Q-1ULH, equipped with the Intel[®] Xeon[®] processor D product family is the perfect hybrid system for applications related to software-defined storage.



QuantaGrid **D51PH-1ULH** Storage Server

Hybrid Scale-Out High Computing Storage Server

With uncompromised performance delivered in an ultradense 1U chassis, the D51PH-1ULH successfully maximizes data center efficiency.



Server



QuantaMicro Series

Why waste energy, space, and money on a high-end server when a microserver can handle the job?

Dedicated to attaining the best space, energy, and cost efficiency, the high-density and low-power QuantaMicro is QCT's first complete microserver line best suited for the growing number of hyperscale workloads found inside modern data centers.





- Aggregated Network and Single Management of Ports Across All Nodes
- Shared Power Supplies and Cooling Modules
- Cold-aisle Accessibility, Hot-Pluggable Power Supplies and Nodes
- Embedded Switches to Lower Network Per Port Costs
- Space Saving Ultra-Dense Chassis Design

QuantaMicro X10E-9N

Hybrid, High Density, and High Efficiency

Built on the latest Greenlow platform, the X10E-9N achieves performance gains in a high-density 3U9N chassis. A microserver with two hot-pluggable switches reduces CAPEX and complexity in networking and cable management.





QuantaPlex Series

The QCT QuantaPlex series is a highly sophisticated, multinode design that delivers extremely high density and computing performance. The shared infrastructure solution provides the flexibility to set up different workloads while maximizing space savings and augmenting cooling and energy efficiency to reduce TCO.





- Multi-Independent Nodes Create High Performance and Flexibility for Multiple Workload Scenarios
- Improved Performance, Availability and More Cost-Effective than Single Nodes of Comparable Speeds
- QCT Modularized Design Concepts Optimize Interoperability and Serviceability with Reduced Complexity
- Provides Optimal Data Center Performance and Storage Per Dollar

QuantaPlex T42S-2U



Ample Performance Multi-Node Server

QuantaPlex T42S-2U is an ultra-dense design equipped with four independent nodes. It creates the flexibility to set up different workloads independently in one 2U shared infrastructure, providing optimal data center performance per dollar.



QuantaPlex T42SP-2U



Ample Performance Multi-Node Server with Additional NVMe Tier

QuantaPlex T42SP-2U is an ultra-dense design equipped with four independent nodes. It creates the flexibility to set up different workloads independently in one 2U shared infrastructure, providing optimal data center performance per dollar. Each node supports two NVMe SSDs, which are three times faster than conventional high-end 12Gbps SAS SSDs.







QuantaPlex T42D-2U



Ultra-Dense Memory Multi-Node Server

QuantaPlex T42D-2U is a 2U 4-node system that can support the Intel[®] Xeon[®] Scalable Processors, 96 DIMMS of DDR4 memory and 16 All-Flash NVMe Drive. With a shared infrastructure, redundant cooling fans and power supplies, the total cost of ownership (TCO) is dramatically lower than four regular 1U servers.



QuantaPlex S41T-2U

A Game Changing Xeon-Phi[™] Server that Redefines HPC Infrastructure



24

per node

2

Cut down power consumption while delivering thrilling performance with Intel's latest Xeon-Phi[™] processor, the S41T-2U tackles the most demanding workloads with the best performance per watt.





QuantaPlex T21SR-2U

2U2N High Availability Cluster-in-a-Box Server

This compact cluster-in-a-box design incorporates two redundant server boards configuring one shared storage for a high availability solution. Its data vaulting solution, enabled by a built-in backup battery unit, brings system integrity to the next level.



QuantaPlex T22SF-1U



Transforming High Density Design

A revolutionary compact 1U chassis that hosts 2 nodes of the next generation Intel[®] Xeon[®] Scalable Processors (codename: Skylake). Designed with serviceability in mind, the T22SF-1U introduces cold aisle I/O service previously only enjoyed by hyperscalers into the traditional space that effectively improves thermal conditions and reduces OPEX. Implementing unique engineering expertise on top of this architecture to eliminate fail domain creates a highly reliable infrastructure for intense compute environments.





Ultra-Dense Extreme Performance Storage Server

Delivering extreme computing power and supporting up to 78 3.5" HDDs in a 4U chassis, the T21P-4U is an ultra-dense storage server that suits a wide range of applications, including big data analytics, or massive block/object storage.





QuantaPlex T41S-2U

2U4N Server Featuring Highest Compute Density

Built on a 2U 4-node infrastructure, the T41S-2U comes with exceptionally high density that addresses customers looking for the most space and energy efficiency.



QuantaPlex T41SP-2U

2U4N Server Featuring NVMe SSD

Leveraging the latest NVMe SSD technology on a 2U 4-node system, T41SP-2U hugely accelerates performance while sharply cutting down TCO through its shared infrastructure and high density.







QCT System Manager (QSM) Intuitive Console for Hyperscale Data Center Management

Due to the growing amount of data and density in data centers, managing IT infrastructure has grown in complexity. QCT System Manager (QSM) is the perfect tool to simplify the IT management process. With QSM's intuitive console, IT operators can manage up to 5,000 nodes at the same time. Through QSM's hierarchy management, every aspect of the system's health status can be easily spotlighted and then monitored.

Converged IT Assets Management

QSM manages a diverse set of devices such as Server, Storage, Rack Management Controller (RMC), and Chassis Management (CM). Additionally, IT administrators can group any device they want to supervise, making system management more effective and efficient.

Remote Management

QSM's remote management feature allows IT operators to manage systems and update device firmware at anytime and anywhere. All the actions can be done on either a single or on a batch of devices at the same time.



Easy-to-use Interface

QSM's customizable dashboard provides holistic information, including health status, real-time power consumption data, CPU load, etc. With this real-time information, IT operators can monitor devices and spotlight areas of concern.





Rackgo R is an effortless data center management instrument for service providers to operate infrastructure as code, this is done through allocating the optimal amount of compute and storage pooled resources for all existing and new applications. This is crucial as virtual environments diversify to include different software vendors that each require a specific vendor's hypervisor. Rackgo R solves this challenge of managing heterogeneous virtual environments with QCT's own simplified, flexible, and complete resource composition and control solution.

Compose Data Center Partitions

A single management tool that configures and customizes your infrastructure into virtually partitioned PODs, a set of defined compute, network and storage resources. Rackgo R creates an complete overall view of all your PODs to monitor multiple workloads and multi-tenant use cases. Rackgo R can also dynamically recompose resources to support a variety of utilization requirements within the same data center as workloads change.





Network Topology Mapping

Network diagrams are essential for ensuring a complete understanding of how your network topology is interconnected and can give businesses an overhead view of what's going on in their network. QCT's Rackgo R automatically discovers the devices in your data center and maps a proper schematic even when new devices are added or removed from the network, which saves IT teams the time of manually having to add and remove them themselves. With this feature, businesses can visualize where their infrastructure is lacking and what needs to be upgraded/replaced in a timely fashion. Rack System

Configure your network switch settings through QCT's intuitive GUI from either the system side or switch side.

Easy Deployment

A simple tool is all it takes to launch OS deployments on logical nodes. After provisioning and checking the network topology, IT teams can deploy OS services for each POD from Rackgo R. This feature of Rackgo R doesn't only save time, manpower, and energy; but it can be performed on massive deployments for fast and easy deployment.

	1918					COCT								
-	14													
for 1	14	il.		*****								110		1. 1
		-				office of the				i and				actaria
					-						ūr.	12.1	1	A
	÷	110	-		-				-					
-														1
							day-	Bauton's	-	Anna and a	Real.	100		-
Perchi	See	Pate	16,0%				-	0.00	100		Constanting of the local division of the loc	Parent -	*	
	14		16.651.0	CLONE LAND	1.94	-	-							
			10000	and the second second	00000			10 August 11	1000 (mar 10) (hote)	the second products where	Arr. (1997) 1998 (1999) 1999			
· · ·			-	- and the second	1.000	- transit								
21			Sec.	- The state	110	-		Long Street						
			1.000		-	1000								
1.000	-	1000	-	-	100	and a local division of the								
					- 27	1.1.1.1.1								
	-	1000	in ma	A REAL PROPERTY.	Salard.	diam'r.								
				10.000	-27	1000								
							1							100
in the second se	in type	and the second			-	1.000	-	1.000		1,000,000,000,000	-	1.0.11		
							-	Card Sec.	and the second second	stand (101)	-	1414	1	
							Constant of Constant	Card Sec.	100000 () () () () () () () () (1000	1 and	-	
						100	1.000						-	

Compose Logical Nodes with Pooled Resources

Compose pooled resources based on utilization and performance requirements to optimize your infrastructure. QCT's products provide you a fully composable ecosystem. The Pooled System Management Engine (PSME) Compute, Pooled GPU, Pooled Storage, and PSME Network can be configured based on the user's own environment.

Rackgo R Covers the Complete QCT Product Ecosystem





19



QCT Accessories

QCT offers the most reliable network and SAS mezzanine cards with unmatched performance, industry-leading bandwidth and ultra-low latency for the most demanding data center applications. The QCT network mezzanine cards are available from the conventional 1GbE/10GbE copper Ethernet for failover redundancy to the LoM, to the high performance 10GbE SFP+ /25GbE SFP28 /40GbE QSFP+ /100GbE QSFP28 and InfiniBand designed to increase the network throughput and bandwidth. With the explosive growth of data in the cloud and enterprise storage requirements, the latest QCT 6Gbps/12Gbps SAS 3.0 mezzanine cards will satisfy the need for both cost efficient cold storage applications and mission critical high performance data applications.

LAN Mezzanine Card

- Versatile LAN Controller Options
- Space-saving OCP Mezzanine Card Design
- Stunningly Affordable High Throughput Experience
- Fully Validated on QCT Products
- One-step Easy Installation

SAS Mezzanine Card

- Cost Saving
- More Flexibility
- Simple Service Process
- Fully Validated on QCT Products

Pre-Validated Cables

- High Quality Cables Supporting the QCT Mezzanine
- Pre-Validated up to 7 Meter*
- Worldwide Factories with Full Stack and Rack Services

torage

Benefit for Transferring to 25/50/100 GbE



2.5X performance increase for every link
Better load distribution and lower latency

OCP Mezzanine Solutions

	Connector Type	Port	Model	QPN
1 G	RJ45	2	ON 1GbE i350	37S2SLB0010
10.0	RJ45	2	ON 10GbE X540	37S2SLB0020
10 G	RJ45	2	ON 10GbE X550	37S2SLB0020
	SFP+	1	ON 10GbE 82599EN-QCT	3JF03MA00C0
10 G	SFP+	2	ON 10GbE 82599ES-QCT	3JF03MA00D0
	SFP+	2	ON 10GbE Skyhawk P2	3MS2BLB0050
	SFP28	2	ON 25G QL45204 Dual port	3GS5BMA0030
	SFP28	1	ON 25G QL45204 Single port	3GS5BMA0020
25 G	SFP28	2	ON 25GbE ConnectX-4 LX EN Dual port	3GS5BMA0000
	SFP28	1	ON 25GbE ConnectX-4 LX EN Single port	3GS5BMA0010
	QSFP	1	ON 40GbE ConnectX-3 PRO IB	35S2BMA0020
40G/ Infiniband	QSFP	1	ON 40GbE ConnectX-3 PRO EN	35S2BMA0090
	QSFP	1	ON 40GbE Skyhawk-R	35S2BMA0010
100 G	QSFP28	1	ON 100G QL45604	37S2PLB0000

Benefits of the Transition to the Next Gen SAS Controller

ROC	3108	3516
SAS Ports/ Speed	x8, 12 Gb/s	x16 , 12 Gb/s
IOPS (4K RAID RR)	0.9M	1.4M
RAID 5 IOPS (4K RW)	50K	185K
Package Size	29x29	27x27



SAS Mezzanine Solutions

Chip IC	Port	Model Name	Description	QPN
LSISAS3008	2	QS-3008-8i-IR-A*	PCIE BD 3008 ASSY (IR F/W)	3FS5DPB0050
LSISAS3008	2	QS-3008-8i-IT-A*	PCIE BD 3008 ASSY	3FS5DPB0000
LSISAS3108	2	QS-3108-R6-PD32-A*	PCIE BD 3108 ASSY (R6;32HDD) 2G	3FS5DPB0030
LSISAS3108	2	QS-3108-R6-PD240-A*	PCIE BD 3108 ASSY (R6;240HDD) 2G	3FS5DPB0040
LSISAS3216	4	QS-3216-IT-B*	PCIE BD 3216 B ASSY	3FS5BPB0010
LSISAS3516	4	QS-3516-R6-PD32-B*	MEZZ BD 3516 ASSY	3GS5BMA00F0
NA	NA	FBU03	CAP ELEC 6.4F 13.5V (-0/+30%,52*65) SUPER	CCB6402TE03
NA	NA	FBU345	CAP ELEC 7.6F 13.5V (-0/+30% 51*64) SUPER	CCB7602TZ00
NA	NA	TFM	CACHE VAULT FLASH CARD (03-25444-15)	ADF25444001

B: Designed for D52B, D52BQ, & Q72D A: Designed for the rest of the systems

QuantaVault Series

architecture is complete with failover, no single-point-of-failure

<u>ح</u> ہ ۱			H OF
			E I
			H OI
o	E		IO H
Ĭ			
Ö			
	<u></u>		



- Hybrid Architecture Enhances Performance, Reliability and Availability
- Ultra-Dense Storage Meets Full Array Application Capacity Requirements
- Converged Design Combines Storage and Computing Resources Into a Simplified Infrastructure
- Fully Redundant Solutions Ensure System Data Integrity

QuantaVault JB2240

Extreme Acceleration Enabled by QCT All NVMe IBOF

At QCT, we believe NVMe SSD is the insanely fast future for SSDs. The JB2240 is capable of running 24 NVMe SSDs, making it QCT's fastest JBOF ever.



2 Controller Module NVMe U.2 Drives

Direct Attach Mode/ NVMe over Fabrics Mode

QuantaVault **B4602**

High-Performance, High-Density 4U Disk **Expansion Unit**

As an ultra-dense, scalable, and cost-effective disk expansion unit envisioned for exceedingly high capacity, absolute reliability and great serviceability, the JB4602 is equipped with 60 hotswapple/tool-less drives for maximum storage capacity.



2 Controller Module

4 External I/O Ports per SIM

60 3.5" or 2.5" HDDs/SSDs

QuantaVault **B2720**

Extreme Performance-Density All Flash Array

This performance-boosting, all-flash-array system grants instant access and dramatically lower latency to storage drives. Combined with dualpath access, no single-point-of-failure and individual drive power-on/ off features, the JB2720 ensures enterprise-class storage systems.



2 Controller Module External I/O Ports per SIM 2.5" SSDs

2 Controller Module

+ 8 2.5" SSDs

4 External I/O Ports per SIM

24 3.5" or 2.5" HDDs/SSDs

QuantaVault JB4242

Versatile Hybrid Disk Expansion Unit

This elegant hybrid system enhances performance, serviceability and reliability. Its unique infrastructure-featuring an out-of-band IPMI remote management and easily accessed cold-aisle designis ideal for a wide array of applications.



* All specifications and figures are subject to change without prior notice.



Open Compute Project

QCT is an advocate for openness and innovation in data center design. Through original design manufacturing partnerships with the prevalent Open Compute Cloud Service Providers, QCT has become a premier solution provider for several of the world's most prominent hyperscale data centers. Powered by Intel[®] Xeon[®] processors







For the past decade, QCT has been deeply involved in the cloud industry and has contributed innovative designs at every scale level. Building on a wealth of collaborative experience and hyperscale knowledge, QCT has further dedicated extensive resources into research and development for the evolution of hyperscale architecture into enterprise and hybrid cloud applications. With designs that are already renowned for power and cooling efficiency that significantly reduces TCO (total cost of ownership), QCT is aggressively pursuing design innovations that better meet enterprise compute and storage requirements, support more Operating Systems (OS), and qualify a wider scope of peripheral commodities. These hyperscale concepts will further elevate our enterprise and hybrid cloud customers' competitiveness as they continue to drive innovation.



QCT's Contribution to Open Compute Project

It has been an extremely successful journey for the QCT Open Compute product lines, pioneering numerous groundbreaking and sophisticated designs to lead the industry in extraordinary solutions. QCT will continue this tradition in 2018, with the launching of many revolutionary systems based on the new Open Rack v2 standard.

Rackgo X OCP Solution

Inspired by the Open Compute Project, Rackgo X is a 21" open rack architecture that is designed to deliver hyperscale data center performance, density, scalability, efficiency, serviceability and manageability. Ideally suited for cloud service providers or high performance applications, Rackgo X meets the needs of the ever-changing industry, while conserving CAPEX and OPEX costs.





- Provides Higher Density, Greater Capacity and Increased Airflow Compared to Conventional Solutions
- Enhanced Serviceability with Tool-Less, Cold-Aisle Operational Design
- Designed to Serve for Multiple Generations, the Centralized Power Supplies on the Rack Boost Energy Efficiency and Lower Capital Costs
- Three Rack Architectures Easily Configured to Suit Different Types of Workloads

Rackgo X **Big Basin** Industry's First NVLink Enabled JBOG (Just a bunch of GPUs)

The Big Basin is the industry's first NVLink enabled GPU enclosure, supporting 8 SXM2 modules to train and execute Deep Learning algorithms faster than ever. Four PCIe Gen3 x16 uplinks connect with up to four existing host systems for flexible configuration to optimize workloads.



Rackgo X Leopard Cave (3-Node) Powerful 20U3N Open Rack v2 Compute System

A next-generation platform with next-generation powerful Intel[®] processors and high-performance memory to provide high-density computing resources that can concurrently handle multiple events and maximize hyper-scale performance.

* All specifications and figures are subject to change without prior notice.



* OU=Open Unit=1.89"



Rackgo X **Big Sur**

Server



The Big Sur combines the next generation of high-powered Intel[®] processors with eight GPU cards to provide thousands of computing cores that excel in emulating human brain neural networks for deep learning algorithms.



First-Ever Open Compute Project GPU

Form	CPU	Memory
Factor	Number	Number
4 OU	2	16

Rackgo X **Yosemite Valley (12-Node)** High-Density 20U12N OCP Single Socket Server

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.





Rackgo X F06D (4-Node)

Revolutionary Converged Multi-node Infrastructure

This next-gen converged infrastructure consolidates highdensity compute and storage (32 drives) capabilities into a single integrated system. With Open Compute modular designs, the F06D is the perfect data center building block for a scale-out environment.

1日

2 OU4N

Memory

16 per node

CPU

2

per node

Rackgo X F06A (4-Node)

High-Density 2U4N System with Optimal IO Expansion

A manufacturing masterpiece featuring the latest Open Compute motherboard with the industry's highest reliability, this 2OU 4-node design maximizes compute density while supporting hot-pluggable storage for increased RAID reliability and improved performance.



Rackgo X Lightning Bolt (3-Node)

Highest Density all NVMe System in Open Rack

The Lightning Bolt is a high-density all NVMe system, and just like the name suggests, provides the highest IOPS performance, with 3 sleds of 16 SSDs each, for a total of 48 NVMe SSDs in just a 2 OU space. High bandwidth PCIe direct-attached storage or a storage server solution provides a flexible fit for your specific workload application.



Rackgo X Knoxville

Storage Server

OCP Storage Server with Balanced Hybrid Storage Array

The Knoxville is an eco-friendly, easy-to-service, maximized storage system that infuses the latest Intel[®] power-efficient processor with 28 tool-less HDD drive bays and 4 NVMe SSDs that accelerate system performance. It's an ideal solution for light to mid-ranged workloads.



Rackgo X **JBR**

High Density 2U JBOD with Tool-less Tray Design

The high-density JBR mounts 28 hard disks using the QCT patented "hidden-shelf" chassis design. A new tool-less tray and lock-in Mini-SAS module design provides an immense improvement to service efficiency.







High Density 2U JBOD with Tool-less Tray Design

The QCT next-gen 12G SAS JBOD enclosure fits an unprecedented 30 disks in a 20U space. Exquisitely designed with serviceability in mind, the JBFA includes a tool-less tray and rear hot-swappable redundant fans.



2 Controller Module		
1 External I/O Ports per SIM		
30 3.5" or 2.5" HDDs		

QuantaMesh Series

essential data center resources, including servers, storage equipments

The QCT QuantaMesh product line of Ethernet switches features low characteristics as well as redundant power supplies and hot-swappable





- Provides Comprehensive L2/L3 Features for Standard Ethernet Switch Communication
- Offloads Server Loading and Optimizes Application Mobility with Network Virtualization
- Automates Network Functions for Fast Deployment and Quick Response to Dynamic Changing Demands
- Ensures Non-Stop Service for All Tasks via Redundant Hardware and Software Designs

QuantaMesh	

T7032-IX1/IX1B

QuantaMesh T5032-LY6

A Powerful 40G Spine or ToR Switch for Data Center and Cloud Computing



40G	Phyless	Ultra low latency	L2/L3
Redundant power & hot-swappable fan			VxLAN
BMS (x86	or P2020)		



Next-Generation 100G Spine or ToR Switch for

Data Center and Cloud Computing

100G Phyless Ultra low latency Redundant power & hot-swappable fan

BMS (x86) BMC built-in

BMC built-inVxLAN & RIOTBMQuantaMesh**T3024-P05**A Powerful 10/40G ToR Switch for
Data Center and Cloud Computing

QuantaMesh T4048-IX2

Data Center and Cloud Computing

25G/100G Phyless Ultra low latency

QuantaMesh T3048-LY7

BMC built-in BMS (x86)

Redundant power & hot-swappable fan

Next-Generation 25G/100G ToR Switch for



QuantaMesh T3048-LY8

A Powerful 10/40G ToR Switch for Data Center and Cloud Computing

QuantaMesh T3048-LY2R

A Powerful 10/40G ToR Switch for

Data Center and Cloud Computing

10G/40G Phyless Ultra low latency





The Next Wave Enterprise Data Center Switch



10G/100G	Phyless	L2/L3	
Redundant power & hot-swappable fan			
BMC built-in	VxLAN & RIOT	BMS (x86)	

QuantaMesh T3048-LY9A

Next-Generation 10GBASE-T ToR Switch for Data Center and Cloud Computing

Redundant power & hot-swappable fan BMS (P2020)



10G/40G	10GBT	VxLAN	L2/L3
Redundan	Power saving		
BMS (x86)			







Rack System

QuantaMesh Switch Accessories

QCT offers a full range of copper and optical cables as well as optical transceivers compliant to the IEEE standards. For short reach distances, direct attach copper cables (DAC) and active optical cables (AOC) are supported. For longer distances, AOC and multiple options of optical transceivers are supported.

Cables

Direct Attach Copper cable (10G: SFP+, 25G: SFP28, 40G: QSFP+ and 100G: QSFP28)

40G Direct Attach Copper fan-out cable (QSFP+ to 4 SFP+)

100G Direct Attach Copper fan-out cables (QSFP28 to 4 SFP28)

10G Active Optical Cable (SFP+, 850nm, MMF)

25G Active Optical Cable (SFP28, 850nm, MMF)

40G Active Optical Cable (QSFP+, 850nm, MMF)

100G Active Optical Cable (QSFP28, 850nm, MMF)

Optics

10G optic (SFP+, LC, 850nm, MMF): 10GBASE-SR

10G optic (SFP+, LC, 1310nm, SMF): 10GBASE-LR

25G optic (SFP28, LC, 850nm, MMF): 25GBASE-SR

40G optic (QSFP+, MPO, 850nm, MMF): 40GBASE-SR4

40G optic (QSFP+, LC, 1310nm, SMF): 40GBASE-LR4

100G optic (QSFP28, MPO, 850nm, MMF): 100GBASE-SR4

Virtual Desktop Infrastructure

QCT offers a selection of virtual desktop infrastructure (VDI) appliances for office application workloads. Powered by market-proven software, these desktop virtualization solutions are unique in their ease of implementation and management.

vmware[®]

QxVDI VMware Edition-OA QxVDI VMware Edition-HC QxVDI VMware Edition-3D

Improve Security Through Enhanced Protection from Data Center to Endpoint



- A Pre-Validated Reliable Turnkey VDI Solution
- Auto-Deployment Tool for Reducing the Complexity of Implementation
- Pay as You Grow

QCT is proud to offer a selection of virtual desktop infrastructure (VDI) appliances for different workloads and scenarios including office applications (OA), highcomputing (HC) intensive workloads, and threedimensional (3D) graphic computing. Powered by market-proven software - VMware Horizon[®] - these desktop virtualization solutions are unique in their ease of implementation and management.

vmware[®]

QxVDI powered by VMware Cloud Foundation™

A Turnkey Solution to Simplify, Build and Operate a Software-Defined Data Center (SDDC) Private Cloud for VDI Application



- Pre-Validated and Pre-Integrated Solution with Fully Automated Build Up Process
- Flexibly and Dynamically Scale
- Centralized Management Interface and Automated Lifecycle Management

QxVDI powered by VMware Cloud Foundation[™] is a fully interoperable solution that provides customers with the easiest way to build and run an SDDC private cloud for VDI applications. This SDDC-based integrated system is ideal for enterprises and service providers focused on greater simplicity, faster time-to-value, enhanced security and lower total cost of ownership (TCO).



Enterprise Private Cloud

QCT is pioneering hyperconverged infrastructures by offering software-defined, highly scalable compute appliances powered by the world's leading virtualization software built on market-proven hyperscale hardware.

QxStack powered by VMware Cloud Foundation™

Easiest Way to Build and Operate a Software-Defined Data Center Private Cloud



- Pre-Validated and Pre-Integrated Solution with Fully Automated Build Up Process
- Flexibly and Dynamically Scale
- Centralized Management Interface and Automated Lifecycle Management

QxStack powered by VMware Cloud Foundation[™] is a fully interoperable solution that provides customers with the easiest way to build and run an SDDC private cloud. The solution is delivered with pre-qualified hardware provided by QCT and VMware's Cloud Foundation[™] software. This SDDC-based integrated system is ideal for enterprises and service providers focused on greater simplicity, faster time-to-value, enhanced security and lower total cost of ownership (TCO).



openstack.

QxStack Ubuntu OpenStack Edition

A Proven HA Architecture with Faster Timeto-Value



- Time Saving: From Months to Days
- Production-Grade Reference Architecture
- Reliable HW & SW Integration

QxStack Ubuntu OpenStack Edition is a turnkey cloud solution that lets customers easily adopt OpenStack. It provides a range of SDN, SDS and next-generation applications via software components, called Juju Charms, to build clouds that best fit each business's needs. By leveraging MAAS and Juju, customers can deploy OpenStack services in days with flexible architectures.



QxStack with Red Hat OpenStack Platform

Validated OpenStack Solution with QxStack Auto-Deployment Tool



- Automated Deployment for Efficiency
- Reliability of the Turnkey Cloud
- Optimization of the Configuration

QxStack with Red Hat OpenStack Platform combines Red Hat OpenStack Platform, QCT's QxStack Auto-Deployment Tool and optimized hardware to give enterprises and service providers a highly available OpenStack cloud that's easy to deploy, manage, and scale. It offers high failure tolerance that minimizes business downtime and the risk of data loss, passing a series of validation tests

QxStack Windows Server 2016 Cloud Ready Appliances

Drive Efficiency with a Windows Server Software-Defined Data Center



- Pre-Validated by Microsoft's WSSD Program
- Fast Deployment and Easy Management
- High Availability and Scalability

QxStack Microsoft Windows Server 2016 Cloud-Ready Appliances validated by Microsoft's WSSD Program integrates all of the software-defined data center (SDDC) technologies for Microsoft Windows Server 2016, inspired by Microsoft Azure, into hyperconverged and converged appliances. These optimized modular appliances delivers everything businesses need: ease of management, enhanced security, great agility, high availability, mass scalability, and unprecedented storage capacity. Rack System





Software Defined Storage

QCT offers high-performance and high capacity virtualized storage environments to help enterprises effectively process an ever-increasing volume of data and manage the complex workloads of analytics. QCT offers scalable, software-defined storage platforms equipped to address file, object and block storage requirements across the board and power the most demanding cloud computing solutions in the industry.

Mware[®]

QxStor VMware EditionvSAN ReadyNode™

Flexible Virtualization Architecture to Fulfill Your Workload Solutions



- Reliability, Efficiency, and Manageability
- Pay as You Grow
- Pre-Configured for Quick VMware vSAN™ Deployment

QxStor VMware Edition-VRN is a series of hyperconverged IaaS appliances (IOPS Optimized SKU, Cost/Capacity Optimized SKU, and Compute-Storage Optimized SKU) with VMware vSAN ReadyNode Certification. It is a pre-validated solution which simplifies complex implementation and management problems. QxStor VMware Edition-VRN helps you fully utilize not only compute but also storage resources by breaking traditional storage and silos. It also promotes simplicity, agility, manageability and lowers TCO when building clouds.

CLOUDIAN[®]

QxStor Cloudian Edition-Hyperstore[®]

AWS S3-Compatible, Enterprise-Grade Storage



- 100% Amazon S3 Support
- Start Small and Grow
- Cost Effective for Cold Data

QxStor Cloudian Edition is a pre-validated solution offering scale-out, Amazon S3-compatible object storage for enterprise data centers. The solution integrates QCT's best in class servers and Cloudian's leading software, delivering the on-premise, petabytescalable storage for warm/cold data. Compared with traditional NAS storage and costs as low as one cent per gigabyte per month, Cloudian reduces TCO by 70%.



QxStor Red Hat Ceph Storage Edition

Optimal Integrated Ceph Solutions at Petabyte Scale



- Performance-Optimized Compared to Community Ceph
- Massive Scalability and Flexibility
- Pre-Configured for Faster Time-to-Value

QxStor Red Hat Ceph Storage Edition offers a family of Ceph solutions for building different types of scaleout storage clusters based on Red Hat Ceph Storage. The seamless interoperability and leading performance for block and object storage make it well suited for archival, rich media, and cloud infrastructure workloads like OpenStack.



QxStor Hedvig Edition

Modern Storage for Modern Business



- Unified Storage for Multiple-Workloads
- Easy Management
- Enterprise-Ready Features

QxStor Hedvig Edition is a pre-validated solution re-architecting storage using modern, distributed systemcapabilities that provides customers with greater business innovations, faster time-to-market, and a flexible infrastructure. The solution integrates QCT's best in class servers and Hedvig's leading software to deliver a quick and easy tailored storage solution for any workload from public to private clouds, to disaster recovery, backup and archiving.



QxStor Red Hat Gluster Storage Edition

Software-Defined Distributed Scale-out File Storage



- Cost, Performance-Optimized Solution for Different Workloads
- Massive Scalability and Flexibility
- Pre-Configured for Faster Time-to-Value

QxStor Red Hat Gluster Storage Edition is designed to meet unstructured, semi-structured and big data storage demands. The optimal configuration ultradense 1U and 4U QCT server has been tested for best performance to serve different workloads, allowing organizations to quickly adopt the distributed file system and easily scale out at will.



Data Analytic Platforms

QCT offers Data Analytic Platforms that enable organizations to meet the most demanding business intelligence needs. Offering breakthrough performance and efficiency, these economical solutions provide enterprises with the unprecedented analytical power and storage capacity required to manage and analyze Big Data while maximizing operational economy.

cloudera Ho





QxData Series

Simplify and Accelerate Deployment of Apache Hadoop



- Time to Solution
- Fine-Tuned Performance
- Fully-Tested Reference Architecture

QxData Series is the collaboration between QCT and Cloudera/ Hortonworks/ MapR to develop a big data reference architecture so that businesses can manage and analyze big data without spending excessive time on operations and maintenance. With the QxData Series, an enterprise can adopt Apache Hadoop with minimum effort.

Microsoft

QxData SQL Server 2016 Appliance

Solution to Large Database Challenges



- Pre-Tuned, Fast Query Performance
- Ease of Deployment and Scalability
- Fully-Tested Reference Architecture

The QxData SQL Server Appliance is optimized for running intensive query workloads and is validated by Microsoft in its Data Warehouse Fast Track Program. It can solve large database challenges with great priceto-performance ratio, reduced maintenance cost, and ensured high performance to address business analytics needs.

Specifications QuantaGrid Series

		QuantaGrid D52B-1U			
ѕки	[All Flash SKU]	[SFF Tiered SKU]	[Hybrid SKU]		
Processor	(2) lr	ntel® Xeon® Scalable Processors (Codename: Skylake),	Up to 165W TDP		
Chipset		Intel [®] C621/C624			
Memory		Up to 3TB (128Gx24) of memory for DDR4 RDIMM/	/LRDIMM		
Storage	(12) 2.5" hot-plug SATA/ NVMe SSDs	(8) 2.5" hot-plug SATA/SAS drives + (4) 2.5" hot-plug NVMe/SATA/SAS drives	Option 1 (3PCle): (4) 3.5"/2.5" hot-plug SATA/SAS drives, (4) 9mm NVMe/SATA/SAS drives (optional) Option 2 (2PCle): (4) 3.5"/2.5" hot-plug SATA/SAS drives, (4) 9mm SATA/SAS drives (optional)		
Network Controller	(1) OCP 2.0 mezzanine or PHY card, (1) Dedicated 1 GbE management port				
Expansion Slot	(2PCle): (1) PCle Gen3 x16 OCP 2.0 mezzanine slot or PHY card (1) PCle Gen3 x16 LP MD-2 (1) PCle Gen3 x8 FHHL	Option 1 (3PCle): (1) PCle Gen3 x16 SAS mezzanine slot (1) PCle Gen3 x16 OCP 2.0 mezzanine slot or PHY card (1) PCle Gen3 x16 LP MD-2 (2) PCle Gen3 x 8 LP MD-2 Option 2 (2PCle): (1) PCle Gen3 x16 SAS mezzanine slot (1) PCle Gen3 x16 OCP 2.0 mezzanine slot or PHY card (1) PCle Gen3 x 8 FHHL (1) PCle Gen3 x 16 LP MD-2	Option 1 (3PCle): (1) PCle Gen3 x16 SAS mezzanine slot (1) PCle Gen3 x16 OCP 2.0 mezzanine slot or PHY card (1) PCle Gen3 x16 LP MD-2 (2) PCle Gen3 x 8 LP MD-2 Option 2 (2PCle): (1) PCle Gen3 x16 SAS mezzanine slot (1) PCle Gen3 x16 COP 2.0 mezzanine slot (1) PCle Gen3 x16 OCP 2.0 mezzanine slot or PHY card (1) PCle Gen3 x16 FHHL (1) PCle Gen3 x16 FHHL		

Form Factor

1U Rackmount

State of the local division of the

	QuantaGrid D51B-1U	QuantaGrid D51BP-1U	QuantaGrid D51PS-1U
Processor	(2) Intel [®] Xeon [®] Processor E5-2600 v3/E5-2600 v4 Product Family	(2) Intel [®] Xeon [®] Processor E5-2600 v3/E5-2600 v4 Product Family	(2) Intel [®] Xeon [®] Processor E5-2600 v3/E5-2600 v4 Product Family
Chipset	Intel [®] C610	Intel [®] C610	Intel [®] C610
Memory	(24) 2400 MHz DDR4 RDIMM/ LRDIMM	(20) 2400 MHz DDR4 RDIMM/ LRDIMM	(16) 2400 MHz DDR4 RDIMM/ LRDIMM
Storage	Option 1: (10) 2.5" hot-plug (including (2) optional 2.5" NVMe PCIe SSDs) Option 2: (10) 2.5" hot-plug (requires an additional LSI SAS/ MegaRAID card to connect to the expander backplane) Option 3: (4) 3.5" hot-plug, (2) 2.5" fixed SSDs	(10) 2.5" hot-plug (support PCle-based interface)	Option 1: (10) 2.5" hot-plug Option 2: (4) 3.5" hot-plug (2) 2.5" fixed SSDs
Network Controller	Option 1: Intel [®] I350 dual-port 1 GbE Dedicated 1 GbE management port Option 2: Intel [®] X540 dual-port 10GbE BASE-T Dedicated 1 GbE management port	Option 1: Intel [®] I350 dual-port 1 GbE Dedicated 1 GbE management port Option 2: Intel [®] X540 dual-port 10GbE BASE-T Dedicated 1 GbE management port	Intel [®] I350 dual-port 1 GbE Dedicated 1 GbE management port
Expansion Slot	Option 1 (default): (1) PCIe Gen3 x8 SAS mezzanine slot (1) PCIe Gen3 x16 FHHL (1) PCIe Gen3 x8 OCP LAN mezzanine slot Option 2: (1) PCIe Gen3 x16 LP MD-2 (1) PCIe Gen3 x16 FHHL (1) PCIe Gen3 x8 OCP LAN mezzanine slot	Option 1 (default): (1) PCle Gen3 x8 SAS mezzanine slot (1) PCle Gen3 x8 OCP LAN mezzanine slot (2) PCle Gen3 x8 LP MD-2 Option 2 (this sku does not support any 2.5" PCle SSD): (1) PCle Gen3 x8 SAS mezzanine slot (1) PCle Gen3 x8 OCP LAN mezzanine slot (2) PCle Gen3 x16 LP MD-2	Option 1 (default): (1) PCle Gen3 x8 SAS mezzanine slot (1) PCle Gen3 x16 OCP LAN mezzanine slot Option 2: (1) PCle Gen3 x8 QCT LAN mezzanine slot (1) PCle Gen3 x16 OCP LAN mezzanine slot
Form Factor	1U Rackmount	1U Rackmount	1U Rackmount



(intel)

Server

	QuantaGrid D51PC-1U	QuantaGrid S31A-1U
Processor	(2) Intel [®] Xeon [®] Processor E5-2600 v3/E5-2600 v4 Product Family	(1) Intel [®] Xeon [®] Processor E3-1200 v5/E3-1200 v6 Product Family
Chipset	Intel [®] C610	Intel [®] C236
Memory	(8) 2400 MHz DDR4 RDIMM/ LRDIMM	(4) 2133/2400 MHz DDR4 UDIMM
Storage	Option 1: (10) 2.5" hot-plug Option 2: (4) 3.5" hot-plug (2) 2.5" fixed SSDs	(4) 3.5" or 2.5" hot-plug (2) 2.5" fixed SSDs
Network Controller	Option 1: (2) GbE ports (Intel [®] I210) Dedicated 1 GbE management port Option 2: (2) GbE ports (Intel [®] I210) + (2) GbE (Intel [®] I350), Dedicated 1 GbE management port	Intel [®] I210 dual-port 1 GbE Dedicated 1 GbE management port
Expansion Slot	Option 1 (default): (1) PCIe Gen3 x8 SAS mezzanine slot (1) PCIe Gen3 x8 LP MD-2 (1) PCIe Gen3 x16 OCP LAN mezzanine slot Option 2: (1) PCIe Gen3 x8 QCT LAN mezzanine slot (1) PCIe Gen3 x8 LP MD-2 (1) PCIe Gen3 x16 OCP LAN mezzanine slot	(1) PCIe Gen3 x8 FHHL (1) PCIe Gen3 x8 OCP mezzanine slot
Form Factor	1U Rackmount	1U Rackmount



100 000 010



			Quanta di la Dozo	4 = 0		
SKU	[LFF SATA/SAS SKU]	[LFF Tiered SKU]	[SFF Pass-through SKU]	[SFF SAS3224 Paddle SKU]	[SFF SAS35x40 Expander SKU]	
Processor	(2) Intel $^{\circ}$ Xeon $^{\circ}$ Scalable Processors (Codename: Skylake), Up to 205W TDP					
Chipset	Intel [®] C621/C624					
Memory		Up to 31	TB (128Gx24) of memory for D	DR4 RDIMM/LRDIMM		
Storage	(Front Storage): (12) 3.5"/2.5" hot-plug SATA/SAS drives (Rear Storage): (2) 2.5" hot-plug NVMe/ SATA/SAS drives (optional)	(Front Storage): (8) 3.5"/2.5" hot-plug SATA/SAS drives + (4) 2.5" hot-plug NVMe/ SATA/SAS drives (Rear Storage): (2) 2.5" hot-plug SATA/SAS drives (optional)	(Front Storage): (16) 2.5" hot-plug SATA/SAS drives + (8) 2.5" hot-plug NVMe drives (Rear Storage): (2) 2.5" hot-plug SATA drives (optional)	(Front Storage): (24) 2.5" hot-plug SATA/SAS drives w/ SAS3224 (Rear Storage): (2) 2.5" hot-plug NVMe/ SATA drives (optional)	Option 1 (Front Storage): (24) 2.5" hot-plug SATA/SAS drives (Rear Storage): (2) 2.5" hot-plug NVMe drives (optional) Option 2 (Front Storage): (24) 2.5" hot-plug SATA/SAS drives (Rear Storage): (2) 2.5" hot-plug SATA/SAS drives (optional)	
Network Controller		(1) OCP 2.0 mez	zanine or PHY card, (1) Dedica	ated 1 GbE management port	t	
Expansion Slot	 (1) PCle Gen3 x16 SAS mezzanine slot (1) PCle Gen3 x16 OCP 2.0 mezzanine slot or PHY card (2) PCle Gen3 x 8 FHHL or (1) PCle Gen3 x16 FHHL (3) PCle Gen3 x 8 FHHL or (1) PCle Gen3 x16 + x 8 FHHL (1) PCle Gen3 x16 LP MD-2 	 (1) PCIe Gen3 x16 SAS mezzanine slot (1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY card (1) PCIe Gen3 x 8 FHHL (3) PCIe Gen3 x 8 FHHL or (1) PCIe Gen3 x16 + x 8 FHHL (1) PCIe Gen3 x16 LP MD-2 	(1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY card (2) PCIe Gen3 x 8 FHHL or (1) PCIe Gen3 x16 FHHL (1) PCIe Gen3 x16 FHHL (1) PCIe Gen3 x16 LP MD-2* *Must be with SAS add-on card	 (1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY card (2) PCIe Gen3 x 8 FHHL or (1) PCIe Gen3 x16 FHHL (3) PCIe Gen3 x 8 FHHL or (1) PCIe Gen3 x16 + x 8 FHHL (1) PCIe Gen3 x16 LP MD-2 	Option 1: (1) PCIe Gen3 x16 SAS mezzanine slot (1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY card (2) PCIe Gen3 x 8 FHHL or (1) PCIe Gen3 x16 FHHL (3) PCIe Gen3 x 8 FHHL or (1) PCIe Gen3 x16 + x 8 FHHL (1) PCIe Gen3 x16 LP MD-2 Option 2: (1) PCIe Gen3 x16 SAS mezzanine slot (1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY card (2) PCIe Gen3 x 8 FHHL or (1) PCIe Gen3 x16 FHHL (3) PCIe Gen3 x 8 FHHL or (1) PCIe Gen3 x16 + x 8 FHHL (3) PCIe Gen3 x 8 LP MD-2 or (1) PCIe Gen3 x16 + x 8 LP MD-2	

Form Factor

2U Rackmount

States Long Solds	SPREASE C
Concernation of the second sec	100000000

QuantaGrid Q72D-2U [Tiered SKU] [SATA/SAS_SKU]

Processor	(4) Intel [®] Xeon [®] Scalable Processors (Codename: Skylake) per node					
Chipset	Intel® C621/C624					
Memory	(48) DDR4 memory for RDIMM					
Storage	(16) 2.5" hot-plug NVMe Drives (4) 2.5" hot-plug NVMe drives + (16) 2.5" hot-plug SAS/SATA Drives (12) SATA Drives (12) SATA Drives					
Network Controller	(1) OCP 2.0 mezzanine card or PHY card, (1) Dedicated 1 GbE management port					
Expansion Slot	 (1) PCle Gen3 x16 OCP 2.0 mezzanine slot or PHY board (2) PCle Gen3 x24 riser slot : - (2) PCle Gen3 x8 FHHL - (2) PCle Gen3 x16 FHHHL (Option : (2) GPGPU) (1) PCle Gen3 x32 riser slot : - (2) PCle Gen3 x16 LP MD-2 (1) PCle Gen3 x16 SAS mezzanine slot 					
Form Factor		2U Rackmount				
-						
Processor	(2) Intel® Xeon® Scalable Processors (Codename: Skylake), up to 205W TDP	(2) Intel [®] Xeon [®] Processor E5-2600 V3/E5-2600 V4 Product Family	(2) Intel® Xeon® Processor E5-2600 V3/E5-2600 V4 Product Family			
Chipset	lIntel [®] C621/C624	Intel [®] C610	Intel [®] C610			
Memory	Up to 3TB RDIMM/LRDIMM (24) 2666 MHz DDR4 RDIMM/ LRDIMM	(24) 2400 MHz DDR4 RDIMM/ LRDIMM	(24) 2400 MHz DDR4 RDIMM/ LRDIMM			
Storage	Option 1: (8) 3.5"/2.5" hot-plug SATA Option 2: (8) 3.5"/2.5" hot-plug SATA/SAS Option 3: (4) 2.5"/2.5" hot-plug SATA + (4)hot-plug NVMe SSD	Option 1: (24) 2.5" hot-plug (2) optional rear 2.5" hot-plug (2) optional rear 2.5" hot-plug PCIe SSDs Option 2: (12) 3.5" hot-plug (2) optional rear 2.5" hot-plug (2) optional rear 2.5" hot-plug PCIe SSDs	Option 1: (10) 3.5" hot-plug SATA 6Gb/s Option 2: (12) 3.5" hot-plug (requires additional SAS/ RAID card)			
Network Controller	N/A* (*Need to select an additional OCP PHY or NIC mezzanine card) Dedicated 1 GbE management port	Option 1: Intel [®] I350 dual-port 1 GbE Dedicated 1 GbE management port Option 2: Intel [®] X540 dual-port 10GbE BASE-T Dedicated 1 GbE management port	Option 1: Intel [®] I350 dual-port 1 GbE Dedicated 1 GbE management port Option 2: Intel [®] X540 dual-port 10GbE BASE-T Dedicated 1 GbE management port			
Expansion Slot	Option 1: (1) PCIe Gen3x16, OCP mezzanine slot (can switch to PCH if not using OCP mezzanine slot) (4) PCIe Gen3x16, GPU slot or (2)GPU+(2) PCIe Gen3x16, FHHL (1) LP MD-2 PCIe x16 (1) LP MD-2 no PCIe signal (for IFT) Option 2: (1) PCIe Gen3x16, OCP mezzanine slot (can switch to PCH if not using OCP mezzanine slot) (4) GPU slot PCIe x16 or (2)GPU+(2) FHHL PCIex16 (1) LP MD-2 PCIe x8 (1) LP MD-2 PCIe x8 (1) PCIe Gen3x16, OCP mezzanine slot (can switch to PCH if not using OCP mezzanine slot (can switch to PCH if not using OCP mezzanine slot) (4) GPU slot PCIe x16 or (2)GPU+(2) FHHL PCIex16 (1) PCIe Gen3x16, OCP mezzanine slot) (4) GPU slot PCIe x16 or (2)GPU+(2) FHHL PCIex16 (1) PCIe x8 (for Type A SAS mezzanine slot) (1) LP MD-2 PCIex8 Option 4: (1) PCIe Gen3x16, OCP mezzanine slot (can switch to PCH if not using OCP mezzanine slot (can switch to PCH if not using OCP mezzanine slot (can switch to PCH if not using OCP mezzanine slot (can switch to PCH if not using OCP mezzanine slot (can switch to PCH if not using OCP mezzanine slot (can switch to PCH if not using OCP mezzanine slot (can switch to PCH if not using OCP mezzanine slot (can switch to PCH if not using OCP mezzanine slot (can switch to PCH if not using OCP mezzanine slot (can switch to PCH if not using OCP mezzanine slot (can switch to PCH if not using OCP mezzanine slot (can switch to PCH if not using OCP mezzanine slot (can switch to PCH if not using OCP mezzanine slot (can switch to PCH if not using OCP mezzanine slot (can switch to PCH if not using OCP mezzanine slot (can switch to PCH if not using OCP mezzanine slot (can switch to PCH if not using OCP mezzanine slot (can switch to PCH if not using OCP mezzanine slot (can switch to PCH if not using OCP mezzanine slot (can switch to PCH if not using OCP mezzanine slot (can switch to PCH if not using OCP mezzanine slot (can switch to PCH if not using OCP mezzanine slot (can switch to PCH if not using OCP mezzanine slot (can switch to PCH if not using OCP	Option 1 (default): (1) PCle Gen3 x8 SAS mezzanine slot (2) PCle Gen3 x8 LP MD-2 (1) PCle Gen3 x8 FHHL (1) PCle Gen3 x16 FHHL (1) PCle Gen3 x8 OCP LAN mezzanine slot Option 2: (1) PCle Gen3 x16 LP MD-2 (2) PCle Gen3 x8 FHHL (1) PCle Gen3 x16 FHHL (1) PCle Gen3 x8 OCP LAN mezzanine slot	(2) PCIe Gen3 x16 double-width FHFL (2) PCIe Gen3 x8 LP MD-2 (1) PCIe Gen3 x8 OCP LAN mezzanine slot			
Form Factor	2U Rackmount	2U Rackmount	2U Rackmount			

SKU

[All Flash SKU]





XEON Inside







	QuantaGrid D52G-4U	QuantaGrid D51PL-4U	QuantaGrid Q71L-4U
Processor	(2) Intel [®] Xeon [®] Scalable Processors (Codename: Skylake), up to 205W TDP	Intel [®] Xeon [®] Processor E5-2600 v4 Product Family	(4) Intel [®] Xeon [®] Processor E7-4800 v2 /E7-4800 v3 / E7-4800 v4 /E7-8800 v3 /E7-8800 v4 Product Family
Chipset	Intel [®] C621/C624	Intel [®] C610	Intel [®] C602J
Memory	Up to 3TB RDIMM/LRDIMM (24) 2666 MHz DDR4 RDIMM/ LRDIMM	(16) 2400 MHz DDR4 memory for RDIMM/LRDIMM	E7-4800 v2 : (96) 1600 /1333 MHz DDR3 RDIMM E7-4800 v3 /E7-4800 v4 /E7-8800 v3 /E7-8800 v4 : (96) 1866 MHz DDR4 RDIMM
Storage	Option 1: (24) 2.5" hot-plug SATA/SAS SSD Option 2: (20) 2.5" hot-plug SATA/SAS SSD+ (4) hot-plug NVMe SSD Option 3: (8) hot-plug NVMe SSD	(102) 3.5" hot-plug SAS/SATA HDD (2) 7mm SATA SSD	 (12) 2.5" hot-plug (*including (2) optional 2.5" PCle SSDs) * (2) NVMe PCle SSDs supported onboard, (2) additional available with add-on PCle card.
Network Controller	Dedicated 1 GbE management port	(2) GbE ports Intel I350 LOM (1) Dedicated management 10/100/1000 port	 Option 1: Intel[®] I350 dual-port 1 GbE Dedicated 1 GbE management port Option 2: Intel[®] X540 dual-port 10GbE BASE-T Dedicated 1 GbE management port
Expansion Slot	 x86 motherboard: (1) PClex8 OCP mezzanine slot (can switch to PCH if not using OCP mezzanine slot) (1) PClex8, SAS mezzanine slot (can switch to 2xNVMe SSD) Option 1: (1) PClex8, FHHL slot (1) PClex8, LP-MD2 slot (can switch to 2xNVMe SSD) Option 2: (1) LP-MD2 slot without PCle signal for IFT card (1) PClex16, FHHL slot Baseboard: Option 1: (8) PClex16 dual-width, FHFL slot + (2) PClex16 LP-MD2 or (10) PClex16 dual-width, FHFL slot Option 2: (16) PClex16 single-width, FHFL slot + (4) PClex16, LP-MD2 slot or (20) PClex16 dual-width, FHFL slot + (4) PClex16, LP-MD2 slot or (8) PClex16 dual-width, FHFL slot+(4) PClex16, LP-MD2 slot 	(1) PCle Gen3 x8 riser slot 1 HHHL (1) OCP PCle Gen3 x16 LAN mezzanine (1) PCle Gen3 x8 riser slot 2 HHHL or SAS mezzanine (1) PCle Gen3 x16 riser slot 3 FHHL	(2) PCle Gen3 x16 FH 3/4L (8) PCle Gen3 x8 FHHL (1) PCle Gen3 x8 SAS mezzanine slot (1) PCle Gen3 x8 dedicated network mezzanine slot
Form Factor	4U Rackmount	4U Rackmount	4U Rackmount





QuantaPlex Series



	QuantaPlex T42S-2U	QuantaPlex T42SP-2U	QuantaPlex T42D-2U	
SKU	-	-	[SATA/SAS_SKU]	[All Flash SKU]
Processor	(2) Intel [®] Xeon [®] Scalable Processors (Codename: Skylake) per node, Up to 165W TDP	(2) Intel [®] Xeon [®] Scalable Processors (Codename: Skylake) per node, Up to 165W TDP	(2) Intel [®] Xeon [®] Scalable Processors (Codename: Skylake) per node	
Chipset	Intel [®] C621/C624	Intel [®] C621/C624	Intel [®] C621/C624	
Memory	(16) 2666 MHz DDR4 RDIMM	(16) 2666 MHz DDR4 RDIMM	(96) DDR4 mem	nory for RDIMM
Storage	Option 1: (4)MBs with 24x 2.5" hot-plug SATA/SAS HDD/SSD Option 2: (4)MBs with 12x 3.5"/2.5" hot-plug SATA/SAS HDD/ SSD	(4) MBs with 16x 2.5" hot-plug HDD/SSD+ 8x 2.5" hot-plug U.2	(4) 2.5" hot-plug SAS/ SATA drives per node	(4) 2.5" hot-plug NVMe/ SAS/SATA drives per node
Network Controller	(1) OCP 2.0 mezzanine or PHY card per node (1) Dedicated 10/100/1000 management port per node	(1) OCP 2.0 mezzanine or PHY card per node (1) Dedicated 10/100/1000 management port per node	(1) OCP 2.0 mezzanine or PHY card per node (1) Dedicated 1 GbE management port	
Expansion Slot	(1) PCle Gen3 x16 LP MD-2 (1) PCle Gen3 x8 for SAS mezzanine slot (1) PCle Gen3 x16 for OCP mezzanine slot (1) PCle Gen3 x2 for 2280/22110 M.2	(1) PCle Gen3 x16 LP MD-2 (1) PCle Gen3 x8 for SAS mezzanine slot (1) PCle Gen3 x16 for OCP mezzanine slot (1) PCle Gen3 x2 for 2280/22110 M.2	(2) PCle Gen3 x16 LP MD-2 per node (1) PCle Gen3 x16 OCP mezzanine slot per node	
Form Factor	2U Rack Mount, 4 Nodes	2U Rack Mount, 4 Nodes	2U Rack Mount, 4 Nodes	







	QuantaPlex T22SF-1U	QuantaPlex S41T-2U	QuantaPlex T21P-4U
Processor	(2) Intel [®] Xeon [®] Scalable Processors (Codename: Skylake) per node, Up to 165W TDP	(1) Intel [®] Xeon Phi [™] Processor 7200 Family per node	(2) Intel [®] Xeon [®] Processor E5-2600 v3/E5-2600 v4 Product Family per node
Chipset	Intel [®] C621/C624	Intel [®] C610	Intel [®] C610
Memory	(16) 2666 MHz DDR4 RDIMM/LRDIMM per node	(6) 2400MHz DDR4 RDIMM/LRDIMM per node	(16) 2400 MHz DDR4 RDIMM/ LRDIMM per node
Storage	(2) Fixed SATA/NVMe SSD per node (14) Fixed SATA SSD per storage sled	215W Processor: (24) 2.5" SATA HDD/SSD 245W Processor: (24) 2.5" SATA SSD or (2) 2.5" SATA HDD per node	SKU 1: (2) MBs with (70) 3.5"/2.5" hot plug, each MB manages (35) HDDs SKU 2: (1) MB with (78) 3.5"/2.5" hot plug
Onboard Storage	(1) SATA/PCIe M.2 2280/22110 per node	-	-
Network Controller	(1) dedicated 1GbE RJ45 management port per node	Multiple OCP 2.0 form factor mezzanine options Dedicated 10/100 management port per node	(2) GbE ports Intel [®] I350 LOM Dedicated 10/100/1000 management port
Expansion Slot	(1) PCIe Gen3 x16 HHHL slot per node* (1) PCIe Gen3 x16 OCP mezzanine slot per node (1) PCIe Gen3 x8 SAS mezzanine slot per node**	(1) PCle Gen3 x16 LP MD-2 (1) PCle Gen3 x16 OCP LAN mezzanine slot	 (1) PCIe Gen3 x8 riser slot 1 HHHL (1) PCIe Gen3 x16 OCP LAN mezzanine slot (1) PCIe Gen3 x8 riser slot 2 HHHL or SAS mezzanine slot (1) PCIe Gen3 x16 riser slot 3 FHHL
Form Factor	1U Rackmount, 2 Nodes	2U Rackmount, 4 Nodes	4U Rackmount

* This slot supports QCT AVA-LP carrier board for up to 4x PCIe M.2 2280/22110 **This slot supports QCT AVA-LP carrier board for up to 2x PCIe M.2 2280/22110









	QuantaPlex T21SR-2U	QuantaPlex T41S-2U	QuantaPlex T41SP-2U
Processor	(2) Intel [®] Xeon [®] Processor E5-2600 v3/E5-2600 v4 Product Family per node	(2) Intel [®] Xeon [®] Processor E5-2600 v3/E5-2600 v4 Product Family per node	(2) Intel [®] Xeon [®] Processor E5-2600 v3/E5-2600 v4 Product Family per node
Chipset	Intel [®] C610	Intel [®] C610	Intel [®] C610
Memory	(16) 2400 MHz DDR4 RDIMM/ LRDIMM per node	(16) 2400 MHz DDR4 RDIMM/ LRDIMM per node	(16) 2400 MHz DDR4 RDIMM/ LRDIMM per node
Storage	Option 1: (12) 3.5" hot-plug shared SAS HDDs/SSDs (2) 2.5" hot-plug HDDs/SSDs for OS installation per node (1) USB Flash Module Option 2: (24) 2.5" hot-plug shared SAS HDDs/SSDs (2) 2.5" hot-plug HDDs/SSDs for OS installation per node (1) USB Flash Module	Option 1: (6) 2.5" hot plug per node Option 2: (3) 3.5" hot plug per node	(6) 2.5" hot plug (2x NVMe SSDs) per node
Network Controller	Dedicated 10/100 management port per node	Dedicated 10/100 management port per node	Dedicated 10/100 management port per node
Expansion Slot	 PCle Gen3 x8 for Intel[®] Non-Transparent Bridge (NTB) per node PCle Gen3 x8 for 10G Base-KR per node PCle Gen3 x8 LP MD-2 per node PCle Gen3 x8 for SAS controller per node 	(1) PCle Gen3 x16 LP MD-2 (1) PCle Gen3 x8 mezzanine slot (1) PCle Gen3 x8 OCP LAN mezzanine slot	(1) PCle Gen3 x16 LP MD-2 (1) PCle Gen3 x8 mezzanine slot (1) PCle Gen3 x8 OCP LAN mezzanine slot
Form Factor	2U Rackmount, 2 Nodes	2U Rackmount, 4 Nodes	2U Rackmount, 4 Nodes

QuantaMicro Series



	QuantaMicro X10E-9N				
Processor	(2) Intel [®] Xeon [®] Processor E3-1200 v5/ E3-1200 v6 Product Family per node				
Chipset	Intel [®] C236 PCH-H				
Memory	(4) DDR4 2133/2400 MHz ECC UDIMM per node				
Storage	Option 1: (2) 3.5" fixed SAS/SATA Option 2: (4) 2.5" fixed SAS/SATA				
Network Controller	Option 1: (4) GbE ports QCT Intel [®] I350 mezzanine card Option 2: (2) GbE ports QCT Intel [®] I350 mezzanine card				
Expansion Slot	(1) PCIe Gen3 x8+ x4 mezzanine slot for LAN and M.2				
Form Factor	3U Rackmount, 9 Nodes				

QuantaVault Series

			I. II. II.	revere Li socore	
	QuantaVault J	B2240	QuantaVault JB2720	QuantaVault JB4602	QuantaVault JB4242
PIM (PCle Interface Module)	Low Cost SKU: 1x PCle Switch	24 NVMes SKU: 2x PCle Switches	-	-	-
Controller Module	(1) MCPU Board		(2) External SAS Interface Modules(SIM)(8) Internal SAS Interface Modules(ISIM)	(2) External SAS Interface Modules(SIM)(4) Internal SAS Interface Modules(ISIM)	(2) External SAS Interface Modules(SIM)
External IO Ports	mini-SAS HD Port mini-SAS HD Port RJ45 Management LED Micro-USB Consol	Status LED x4, Fail LED x4, Port System Power e Debug Port	(4) 12Gb/s mini-SAS ports per SIM	(4) 12Gb/s mini-SAS ports per SIM	(4) 12Gb/s mini-SAS ports per SIM
Storage	(20) NVMe U.2 Drives	(24) NVMe U.2 Drives	(72) 2.5" hot-plug 7mm/15mm SASIII/SATAIII SSDs	(60) 3.5" or 2.5" hot-plug SASIII/ SATAIII HDDs/SSDs	(24) 3.5" or 2.5" hot-plug SASIII/ SATAIII HDDs/SSDs (8) 2.5" hot-plug SASIII/SATAIII SSDs (optional)
Management Port	(1) RJ45 managem	ent port	(1) Mini USB management port per SIM	(1) Mini USB management port per SIM (1) RJ45 management port per SIM	(1) Mini USB management port per SIM (1) RJ45 management port per SIM
Fan	(4) 6	056 Fans	(4) Dual rotor fans per module	(4) Dual rotor fans per module	(3) Dual rotor fans per module (2) Dual rotor fans per module for optional SSD
PSU	(2) 1200W 86m	m Titanium/Platinum	(2) 1400W 100-240VAC PSUs, Platinum	(2) 1400W 220VAC or (2) 1200W 100-220VAC PSUs, Platinum	(2) 500W 100-240VAC PSUs, Platinum
Form Factor	2U R	ack Mount	2U Rackmount	4U Rack Mount	4U Rackmount

Rackgo X Series



	Big Basin
GPUs	(8) Nvidia Tesla P100 – SXM2
Management Port (1) Dedicated 1GbE RJ45 management port	
Integrated BMC chip	Aspeed AST2500
Front I/O	(1) Debug port
Expansion Slot	(4) PCle Gen3 x16 FHHL slot (2) PCle Gen3 x8 FHHL slot
Form Factor	3 OU (Open Rack) Rackmount
Rack Compatible	Open Rack v2









	Big Sur	Leopard Cave	Yosemite Valley
Processor	(2) Intel [®] Xeon [®] Processor E5-2600 v4 Product Family	(2) Intel [®] Xeon [®] Processor E5-2600 v4 Product Family	(1) Intel [®] Xeon [®] Processor D-1500 Product Family
Coprocessor	(8) GPGPU/ Intel [®] Xeon Phi [™] cards	-	-
Chipset	Intel [®] C610	Intel [®] C610	Intel [®] Xeon [®] processor D-1500 SoC per node
Memory	(16) 2400/2133 MHz DDR4 RDIMM/LRDIMM	(16) 2400/2133 MHz DDR4 DIMM/LRDIMM per node	(4) 2133MHz DDR4 RDIMM per node
Drive Bay	(8) 2.5" hot-swappable drive bays	(1) 3.5" fixed drive bay per node (6) 2.5" hot-plug SATA SSD per node	-
Boot Option	-	-	(1) 2280 M.2 per node
Network Controller	Supports the following QCT OCP mezzanine cards (PCIe x8) for network options in front IO: (1) QCT 1GbE RJ45 dual port OCP mezzanine card or (1) QCT 10GbE RJ45 dual port OCP mezzanine card or (1) QCT 10G/25Gb/40G SFP+ OCP dual port mezzanine card (1) QCT 56G QSFP+ OCP single port mezzanine card	Supports the following QCT OCP mezzanine cards (PCIe x8) for network options in front IO: (1) QCT 1GbE RJ45 dual port OCP mezzanine card or (1) QCT 10GbE RJ45 dual port OCP mezzanine card or (1) QCT 10G/25Gb/40G SFP+ OCP dual port mezzanine card (1) QCT 56G QSFP+ OCP single port mezzanine card	Option: Aggregated Mellanox CX4-LX Multi-host network card per (4) nodes
Expansion Slot	(1) PCle Gen3 x8 OCP mezzanine card (1) PCle Gen3 x8 QCT SAS mezzanine card	(1) PCle Gen3 x8 OCP mezzanine card per node (1) PCle Gen3 x16 FHHL PCle card per node (1) PCle Gen3 x8 FHHL per node	-
Form Factor	4 OU (Open Rack) Rackmount	2 OU (Open Rack) Rackmount, 3 Nodes	2 OU (Open Rack) Rackmount, 12 Nodes
Rack Compatible	Open Rack v2	Open Rack v2	Open Rack v2







	F06D	F06A	Lightning Bolt	
Processor	(2) Intel [®] Xeon [®] Processor E5-2600 v3/E5-2600 v4 Product Family	(2) Intel [®] Xeon [®] Processor E5-2600 v3/E5-2600 v4 Product Family	(1) Intel [®] Xeon [®] Processor D-1500 Product Family	Microsemi PM8536 PCle Switch
Chipset	Intel [®] C610	Intel [®] C610		-
Memory	(16) 2400 Mhz DDR4 RDIMM / LRDIMM per node	(16) 2400 Mhz DDR4 RDIMM / LRDIMM per node	(4) 2400/2133 MHz E	DDR4 RDIMM per node
Drive Bay	(8) 2.5" hot-plug per node	(2) 2.5" hot-plug per node	(16) 2.5" hot-p	olug NVMe SSDs
Network Controller	QCT PCP network mezzanine card options per node* (1) Dedicated 1GbE management port per node *Please refer to the QCT Mezzanine Cards at http://www.qct.io/product/index/Rack/ Mezzanine-Cards	QCT PCP network mezzanine card options per node* (1) Dedicated 1GbE management port per node *Please refer to the QCT Mezzanine Cards at http://www.qct.io/product/index/Rack/ Mezzanine-Cards	(1) PCle Gen3 x8 OCP mezzanine slot	-
Expansion Slot	(1) PCle Gen3 x8 LP MD-2 per node (1) PCle Gen3 x8 internal SAS mezzanine option per node	(1) PCle Gen3 x8 OCP network mezzanine Slot (2) PCle Gen3 x8 LP MD-2	-	(8) miniSAS ports of x4 PCle
Form Factor	2 OU (Open Rack) Rackmount, 4 Nodes	2 OU (Open Rack) Rackmount, 4 Nodes	2 OU (Open Rack) Rackmount, 3 Nodes	
Rack Compatible	Open Rack v1 & v2	Open Rack v1	Open Rack v2	

	Knoxville
Processor	(1) Intel [®] Xeon [®] Processor D-1500 Product Family
Chipset	Intel [®] Xeon [®] processor D-1500 SoC
Memory	(4) 2400/2133 MHz DDR4 SODIMM
Drive Bay	(28) 3.5" hot-plug SAS HDDs (4) 2.5" hot-plug NVMe SSDs
Network Controller	Option 1: (2) 10G SFP+ ports Option 2: (1) 40G QSFP+ port
Expansion Slot	(1) PCIe Gen3 x8 OCP mezzanine slot (2) PCIe Gen2 x2 M.2
Form Factor	2 OU (Open Rack) Rackmount
Rack Compatible	Open Rack v2

			-
1.000	4	1	Ш.

	JBR	JBFA
Controller Module	(2) SAS Interface Modules (SIM)	(2) SAS Interface Modules (SIM)
External I/O Ports	(2) 6Gb/s mini-SAS port per SIM	(2) 12Gb/s mini-SAS port per SIM
Storage	(28) 3.5" or 2.5" hot-plug SAS/SATA HDDs/SSDs	(30) 3.5" and 2.5" SAS/SATA hot- pluggable HDDs
Management Port	(1) OCP debug management port	(1) OCP debug management port
Fan	(6) Hot-swappable dual rotor fan modules per system	(6) Hot-swappable dual rotor fan modules per system
Form Factor	2 OU (Open Rack) Rackmount	2 OU (Open Rack) Rackmount
Rack Compatible	Open Rack v1	Open Rack v1 & v2

QuantaMesh Series

	· • • • • • • • • • • • • • • • • • • •			
	QuantaMesh T7032-IX1/IX1B	QuantaMesh T5032-LY6	QuantaMesh T4048-IX2	
Physical Ports				
Port Configuration	32 100GbE QSFP28 ports	32 QSFP+ ports	48 25GbE and 8 100GbE QSFP28 ports	
Management Port	OOB port (10/100/1000BASE-T)			
Console Port	1 (RJ-45)			
USB	1 (Type A)			
Performance				
Switching Capacity	6.4Tbps	2.56Tbps	4.0Tbps	
Maximum Forwarding Rate	Line rate performance*	1904Mpps	Line rate performance	
Latency	Ultra-low latency	<600ns	Ultra-low latency	
MAC		Unified Forwarding Table (UFT)**		
CPU	Intel Atom [®] Processor C2338 x86	P2020	Intel Atom [®] Processor C2338 x86	
Memory	8GB DDR3/ECC	2GB DDR3/ECC	8GB DDR3/ECC	
Flash	-	128MB	-	
Storage	32GB SSD	8GB microSD	32GB SSD	
BMC	AST2520(Available in IX1B)	-	-	
High Availability		Redundant Power Supply: 1+1 Hot-Swappable Fan Tray: N+1		
* Packet size greater that	n 256B			

** UFT: Unified Forwarding Table that is flexible to dynamically allocate the L2 and L3 table size.



Rack System

H H





	QuantaMesh T3048-LY8	QuantaMesh T3048-LY7	QuantaMesh T3048-LY2R	
Physical Ports				
Port Configuration	48 1/10GbE SFP+ 6 40GbE QSFP+ ports	48 1/10GbE SFP+ 4 100GbE QSFP28 Ports	48 1/10GbE SFP+ 4 40GbE QSFP+ ports	
Management Port		OOB port (10/100/1000BASE-T)		
Console Port		1 (RJ-45)		
USB		1 (Туре А)		
Performance				
Switching Capacity	1.44Tbps	1.76Tbps	1.28Tbps	
Maximum Forwarding Rate	1071Mpps	Line rate performance*	952Mpps	
Latency	<600ns	Ultra-low latency	<1us	
MAC	Unified Forw	Unified Forwarding Table (UFT)**		
CPU	P2020	Intel Atom [®] Processor C2338 x86	P2020	
Memory	2GB DDR3/ECC	8GB DDR3/ECC	2GB DDR3	
Flash	128MB	-	128MB	
Storage	8GB microSD	32GB SSD	8GB microSD	
High Availability		Redundant Power Supply: 1+1 Hot-Swappable Fan Tray: N+1		

* Packet size greater than 256B

** UFT: Unified Forwarding Table that is flexible to dynamically allocate the L2 and L3 table size.

and a second second second

 	 _

	QuantaMesh T3024-P05	QuantaMesh T3048-LY9A	QuantaMesh T3048-LY9	
Physical Ports				
Port Configuration	24 1/10GbE SFP+ ports 2 40GbE QSFP+ ports	48 100/1000/10G BASE-T 6 40GbE QSFP+ ports	48 100/1000/10G BASE-T 6 40GbE QSFP+ ports	
Management Port		OOB port (10/100/1000BASE-T)		
Console Port	1 (Mini USB)		1 (RJ-45)	
USB		1 (Type A)		
Performance				
Switching Capacity	640Gbps		1440Gbps	
Maximum Forwarding Rate	476Mpps	476Mpps 1071Mpps		
Latency	<1us	<1us <3us		
MAC	128K	128K Unified Forwarding Table (UFT)**		
CPU	P2020	x86	P2020	
Memory	4GB DDR3/ECC	4GB DDR3/ECC	2GB DDR3/ECC	
Flash	128MB	-	128MB	
Storage	8GB microSD	32GB SSD	8GB microSD	
High Availability		Redundant Power Supply: 1+1 Hot-Swappable Fan Tray: N+1		

** UFT: Unified Forwarding Table that is flexible to dynamically allocate the L2 and L3 table size.

	QuantaMesh T3040-LY3	QuantaMesh T1048-LB9	QuantaMesh T1048-LY4R
Physical Ports			
Port Configuration	40 100/1000/10G BASE-T 8 1/10GbE SFP+ ports	48 10/100/1000 BASE-T 4 1/10GbE SFP+ ports	48 10/100/1000 BASE-T 4 1/10GbE SFP+ ports
Management Port	OOB port (10/100/1000BASE-T)	OOB port (10/100/1000BASE-T)	10/100/1000BASE-T (RJ-45) x 1 1000BASE-X (SFP) x 1
Console Port			
USB	1 (Туре А)		
Performance			
Switching Capacity	960Gbps	1	76Gbps
Maximum Forwarding Rate	714Mpps	131Mpps	
Latency	<3us	~3us	-
MAC	128K	32К	16K
CPU	P2020	MPC8541	Intel Atom [®] Processor C2338 x86
Memory	2GB DDR3	1GB DDR3	8GB DDR/ECC
Flash	(54MB	8GB microSD
Storage	2GB microSD	2GB CF	-
BMC			AST2520
High Availability		Redundant Power Supply: 1+1	

: Canalana (and canalana (canalana (canalana (canalana (canalana (canalana (canalana (canalana (canalana (canal

	QuantaMesh T1048-LY4A	QuantaMesh T1048-LY4B		
Physical Ports				
Port Configuration	48 10/100/1000 BASE-T 2 1/10G SFP+ ports	48 10/100/1000 BASE-T 4 100/1000 BASE-X SFP ports		
Management Port	ООВ ро	OOB port (10/100/1000BASE-T)		
Console Port	1 (RJ-45)			
USB	1(Type A)			
Performance				
Switching Capacity	136Gbps	104Gbps		
Maximum Forwarding Rate	101Mpps	77Mpps		
Latency		-		
MAC	16K			
CPU	P1010			
Memory	512MB DDR3			
Flash	32MB			
Storage		-		
High Availability		-		









Intel Inside[®]. New Possibilities Outside. Powered by Intel[®] Technology.

QCT authorized partner



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: +492405-4083-1300
- 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

© 2017 Quanta Computer Inc. All rights reserved. Specifications and figures are subject to change without prior notice. All other brand trademarks, logos, and names are the property of their respective owners. All campaign statements and product images contained herein are copyrighted and may not be reprinted and/or reproduced, in whole or in part without the written consent of Quanta Computer Inc.

QCT, the QCT logo, Rackgo, Quanta, and the Quanta logo are trademarks or registered trademarks of Quanta Computer Inc. QCT shall not be liable for technical or editorial errors or omissions contained herein.

Ultrabook, Celeron, Celeron Inside, Core Inside, Intel, Intel Logo, Intel Atom, Intel Atom Inside, Intel Core, Intel Inside, Intel Inside Logo, Intel vPro, Itanium, Itanium Inside, Pentium, Pentium Inside, vPro Inside, Xeon, Xeon Phi, and Xeon Inside are trademarks of Intel Corporation in the U.S. and/or other countries.