



QCT PRODUCT PORTFOLIO

Server | Storage | Networking
Rack System | Solution



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CLOUD ENABLER

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-to-market, through our partnerships with leading technology partners, but also complete access to our QCT ecosystem which is designed and developed all under one roof.

Partnered with

CANONICAL

cloudera

CLLOUDIAN

HORTONWORKS

MAPR

Microsoft

redhat

vmware

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 cloud business unit of Quanta Computer inc.

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.



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:

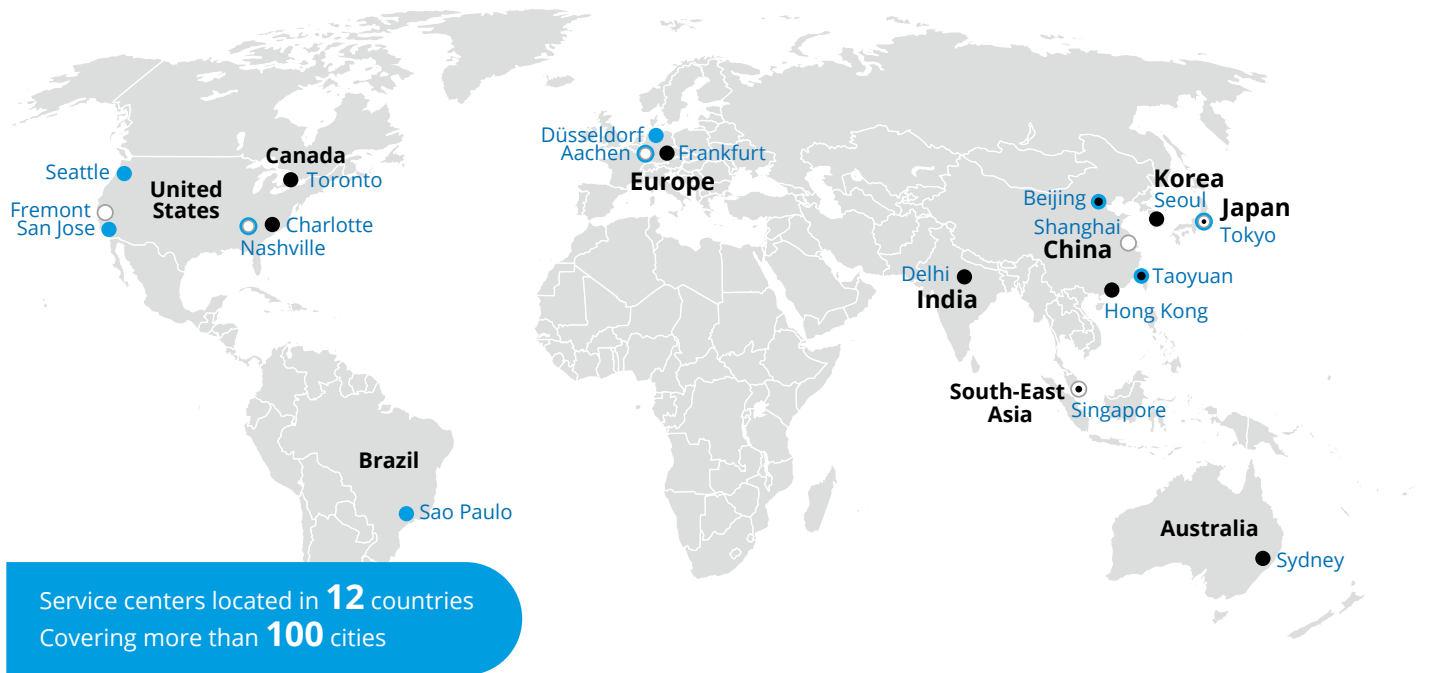
- Discuss innovative solutions for deployment
- Explore and interact with tomorrow's technology
- Gain confidence to adopt leading-edge solutions
- Establish key industry partnerships



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.

Basic Service Warranty













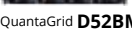


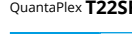

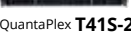


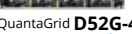

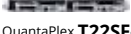




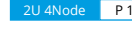
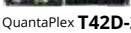



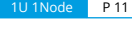


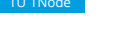























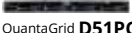





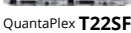

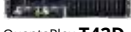







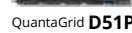




















Premium Service



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

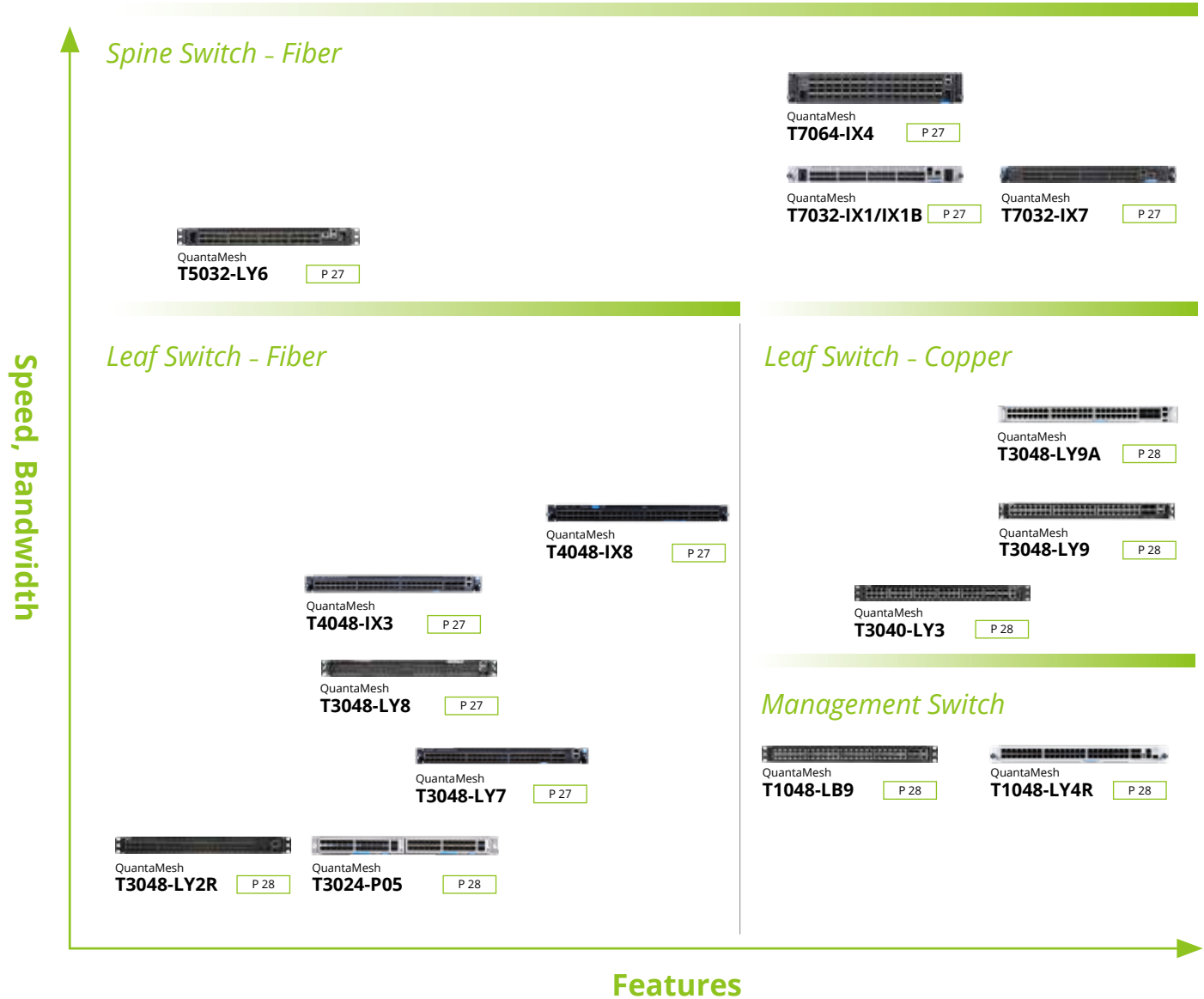
QCT Systems

	HPC / AI (GPU)	Enterprise	Cloud	
	Deep Learning/Oil&Gas/CAE/ In-memory Computing	Finance/Telco/Private Cloud/ERP	CSP/Hosting/CDN	
Xeon SP / E7 4-socket	<div> QuantaGrid Q72D-2U NVMe SSD-supported 2U 1Node P 10</div> <div> QuantaGrid Q71L-4U NVMe SSD-supported 4U 1Node P 12</div>	<div> QuantaGrid Q72D-2U NVMe SSD-supported 2U 1Node P 10</div> <div> QuantaGrid Q71L-4U NVMe SSD-supported 4U 1Node P 12</div>		
Xeon SP / E5 2-socket	<div> QuantaGrid D52BV-2U GPU server 2U 1Node P 10</div> <div> QuantaPlex T42S-2U 2U 4Node P 14</div>	<div> QuantaGrid D52B-1U NVMe SSD-supported 1U 1Node P 9</div> <div> QuantaPlex T41SP-2U NVMe SSD-supported 2U 4Node P 16</div>	<div> QuantaGrid D52B-1U NVMe SSD-supported 1U 1Node P 9</div> <div> QuantaGrid D51PS-1U 1U 1Node P 11</div>	
	<div> QuantaGrid D52G-4U NVMe SSD-supported 4U 1Node P 10</div> <div> QuantaPlex T42SP-2U NVMe SSD-supported 2U 4Node P 14</div>	<div> QuantaGrid D52BM-2U 2U 1Node P 9</div> <div> QuantaPlex T42D-2U NVMe SSD-supported 2U 4Node P 15</div>	<div> QuantaGrid D52BV-2U NVMe SSD-supported 2U 1Node P 10</div> <div> QuantaPlex T22SF-1U 1U 2Node P 15</div>	
	<div> QuantaGrid D51BV-2U GPU server 2U 1Node P 12</div> <div> QuantaPlex T41S-2U 2U 4Node P 15</div>	<div> QuantaGrid D52BQ-2U NVMe SSD-supported 2U 1Node P 10</div> <div> QuantaPlex T42E-2U 2U 4Node P 15</div>	<div> QuantaGrid D52G-4U NVMe SSD-supported 4U 1Node P 10</div> <div> QuantaPlex T42D-2U NVMe SSD-supported 2U 4Node P 15</div>	
	<div> QuantaPlex T22SF-1U 1U 2Node P 15</div> <div> QuantaPlex T41SP-2U NVMe SSD-supported 2U 4Node P 16</div>	<div> QuantaGrid D51B-1U NVMe SSD-supported 1U 1Node P 11</div> <div> QuantaPlex T42SP-2U NVMe SSD-supported 2U 4Node P 14</div>	<div> QuantaGrid D51B-1U NVMe SSD-supported 1U 1Node P 11</div> <div> QuantaPlex T42E-2U 2U 4Node P 15</div>	
	<div> QuantaPlex T42D-2U NVMe SSD-supported 2U 4Node P 15</div> <div> QuantaPlex T42E-2U 2U 4Node P 15</div>	<div> QuantaGrid D51BP-1U NVMe SSD-supported 1U 1Node P 11</div> <div> QuantaPlex T21SR-2U Cluster-in-a-box server 2U 2Node P 15</div>	<div> QuantaGrid D51BP-1U NVMe SSD-supported 1U 1Node P 11</div> <div> QuantaPlex T21P-4U 4U 1/2Node P 15</div>	
			<div> QuantaGrid D51B-2U NVMe SSD-supported 2U 1Node P 11</div> <div> QuantaGrid D52L-1U Coming soon 1U 1Node</div>	<div> QuantaGrid D51BV-2U GPU server 1U 1Node P 12</div> <div> QuantaGrid D51PL-4U 4U 1Node P 10</div>
			<div> QuantaGrid D51PL-4U 4U 1Node P 10</div>	<div> QuantaGrid D51PC-1U 1U 1Node P 11</div> <div> QuantaGrid D52L-1U Coming soon 1U 1Node</div>
	E3 1-socket			<div> QuantaGrid S31A-1U 1U 1Node P 11</div> <div> QuantaMicro X10E-9N 3U 9Node P 13</div>
	Xeon D SoC			
	JBOD / JBOG	<div> QuantaVault JB2242 P 22</div> <div> QuantaGrid JG4080 P 12</div>	<div> QuantaVault JB2242 P 22</div> <div> QuantaVault JB2720 P 22</div> <div> QuantaVault JB4242 P 22</div>	<div> QuantaVault JB2242 P 22</div> <div> QuantaVault JB2720 P 22</div> <div> QuantaVault JB4242 P 22</div>
Rack System	<div> Rackgo R P 18</div> <div> Rackgo X P 24</div>		<div> Rackgo R P 18</div> <div> Rackgo X P 24</div>	

Big Data	Density Optimized	Storage
Hadoop/Ceph/Spark/ Big Data Analytics	Energy and Space Efficiency	Hybrid, Scale-out SAN/NAS, Software-Defined Storage
 <p>QuantaGrid Q72D-2U NVMe SSD-supported 2U 1Node P 10</p>  <p>QuantaGrid Q71L-4U NVMe SSD-supported 4U 1Node P 12</p>		
 <p>QuantaGrid D51PC-1U 1U 1Node P 11</p>  <p>QuantaGrid D51PS-1U 1U 1Node P 11</p>  <p>QuantaGrid D52T-1ULH 1U 1Node P 10</p>  <p>QuantaGrid D51PH-1ULH 1U 1Node P 12</p>  <p>QuantaGrid D51PL-4U 4U 1Node P 10</p>  <p>QuantaPlex T21P-4U 4U 1/2Node P 15</p>	 <p>QuantaPlex T22SF-1U 1U 2Node P 15</p>  <p>QuantaPlex T41SP-2U NVMe SSD-supported 2U 4Node P 16</p>  <p>QuantaPlex T42D-2U NVMe SSD-supported 2U 4Node P 15</p>  <p>QuantaPlex T21P-4U 4U 1/2Node P 15</p>  <p>QuantaPlex T42E-2U 2U 4Node P 15</p>  <p>QuantaGrid D51PL-4U 4U 1Node P 10</p>  <p>QuantaPlex T42S-2U 2U 4Node P 14</p>  <p>QuantaPlex T42SP-2U NVMe SSD-supported 2U 4Node P 14</p>  <p>QuantaPlex T41S-2U 2U 4Node P 15</p>	 <p>QuantaGrid D52BM-2U 2U 1Node P 9 12LFF + 4SFF</p>  <p>QuantaGrid D51PH-1ULH 1U 1Node P 12 12LFF + 4SFF</p>  <p>QuantaGrid D52BQ-2U NVMe SSD-supported 2U 1Node P 10 8 NVMe SSD</p>  <p>QuantaGrid D51B-2U NVMe SSD-supported 2U 1Node P 11 12LFF / 24SFF</p>  <p>QuantaGrid D51BP-1U NVMe SSD-supported 1U 1Node P 11 10 NVMe SSD</p>  <p>QuantaGrid D52T-1ULH 1U 1Node P 10 12LFF + 4SFF</p>  <p>QuantaPlex T21P-4U 4U 1/2Node P 15 70LFF / 78LFF</p>  <p>QuantaPlex T21SR-2U Cluster-in-a-box server 2U 2Node P 15 24SFF / 12LFF</p>
	 <p>QuantaMicro X10E-9N 3U 9Node P 13</p>	
 <p>QuantaGrid SD1Q-1ULH 1U 1Node P 12</p>		 <p>QuantaGrid SD1Q-1ULH 1U 1Node P 12 12LFF + 4SFF</p>
 <p>QuantaVault JB4602 P 22</p>  <p>QuantaVault JB4242 P 22</p>	 <p>QuantaVault JB4602 P 22</p>  <p>QuantaVault JB4242 P 22</p>	 <p>QuantaVault JB2242 72SFF P 22</p>  <p>QuantaVault JB2720 72SFF P 22</p>  <p>QuantaVault JB4602 60LFF P 22</p>  <p>QuantaVault JB4242 24LFF + 8SFF P 22</p>
	 <p>Rackgo R P 18</p>  <p>Rackgo X P 24</p>	 <p>Powered by Intel® Xeon® processors</p>

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

Networking



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*.



TOOL-LESS DESIGN

Out of the many build designs QCT has tested over the years, our one-click 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.



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.



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.



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.



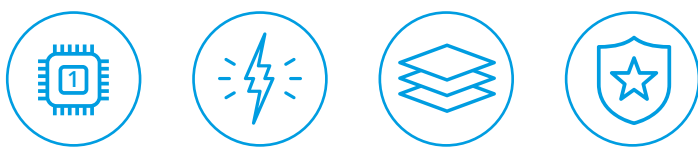
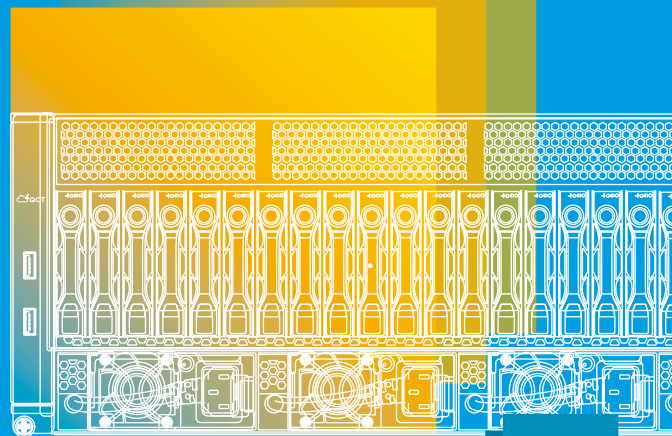
DATA CENTER MANAGEMENT CONSOLE

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 Platforms are based upon Intel's Newest Platform, supporting the latest most-powerful Xeon Scalable Processors. QCT products are backed by over 20 years of experience in designing and manufacturing servers, storage and networking gear by our parent company, Quanta Computers Incorporated.

QuantaGrid Series

QCT offers a comprehensive line of high-performance, rack-mount, 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**

Defying Physical Limitations

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 and features up to 3 TB memory capacity in a 1U chassis.



QuantaGrid **D52BM-2U**

Ultimate Compute and Storage Density 2-Socket Server

QuantaGrid D52BM-2U is designed to have ultra storage and compute density with high scalability to adapt to any application. This server is ideal for hyper converged data center and maximize data center efficiency.



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 product family and features up to 3 TB memory capacity in a 2U chassis.



QuantaGrid **D52BV-2U**

Accelerated Supercomputing Performance

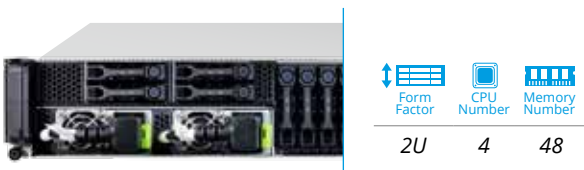
This option with up to four dual-width 10.5 inch accelerators/GPUs combined with both 24 DIMM slots and four NVMe SSDs makes the D52BV-2U the best candidate to easily execute demanding parallel computing applications such as Higher Performance Computing (HPC), Virtual Desktop Infrastructure (VDI), and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



QuantaGrid **Q72D-2U**

4-socket Dense Memory Compute Server

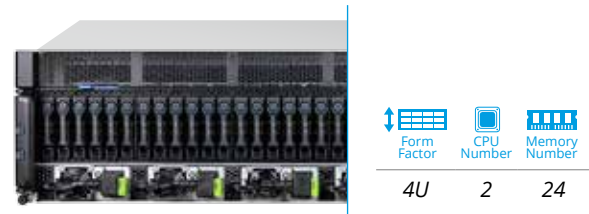
QuantaGrid Q72D-2U is a 2U 4-socket system that supports the latest Intel® Xeon® Scalable Processors with 48 DIMMs of DDR4 memory and 16 U.2 Drives. Optimized for price/performance, this adaptable infrastructure is widely flexible for modern workloads.



QuantaGrid **D52G-4U**

High Density GPU Server

Supporting 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).



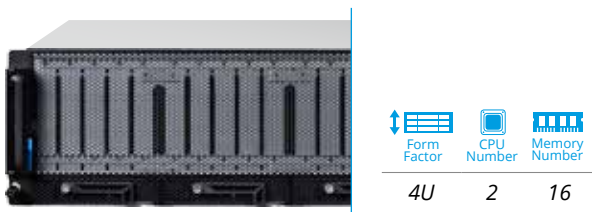
QuantaGrid **D51PL-4U**

Storage Server

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.



QuantaGrid **D52T-1ULH**

Storage Server

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 **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 ultra-dense 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

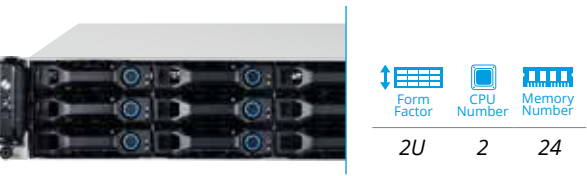
Unprecedented design equipped with flexibility for superfast boot-up and cache tailored for predictable workloads such as dedicated web hosting.



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).



Form Factor	CPU Number	Memory Number
2U	2	24

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.



Form Factor	CPU Number	Memory Number
4U	4	96

QuantaGrid **D51PH-1ULH** Storage Server

Hybrid Scale-Out High Computing Storage Server

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



Form Factor	CPU Number	Memory Number
1U	2	16

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.



Form Factor	CPU Number	Memory Number
1U	1	4

QuantaGrid **JG4080**

TCO Optimized Accelerated-Computing Building Block for Data Centers

QuantaGrid JG4080 is a 4U PCIe expansion system that can accommodate up to 10x dual-width or 20x single-width FPGA/ GPGPU with connection to up to 4x hosts. Moreover, JG4080 can support Intel's dynamic composable architecture, Rack Scale Design (RSD), allowing pooling and distribution of accelerator computing resources for deep learning training, inference, or HPC workloads.



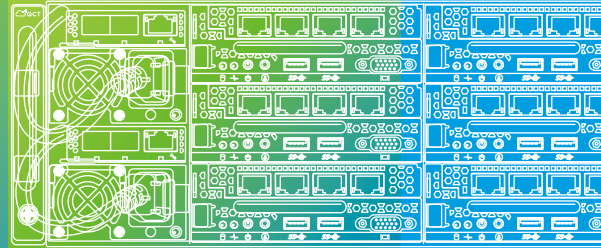
Form Factor	GPU Number
4U	Up to 20 single-width, or 10 double-width



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-Plug 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



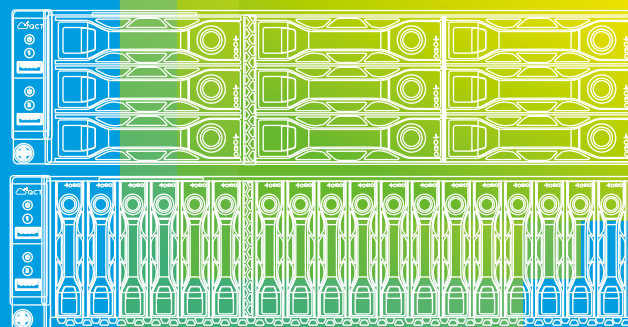
Built on the latest Greenlow platform, the X10E-9N achieves performance gains in a high-density 3U9N chassis. A microserver with two hot-plug switches reduces CAPEX and complexity in networking and cable management.



Form Factor	CPU Number	Memory Number
3U9N	1 per node	4 per node

QuantaPlex Series

The QCT QuantaPlex series is a highly sophisticated, multi-node 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.

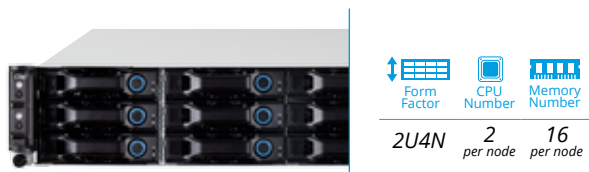


- Multi-Independent Nodes Create High Performance and Flexibility for Multiple Workload Scenarios
- Improved Performance, Availability and More Cost-Effective than Single Nodes of Comparable Speeds
- QCT Modularized Design Concepts Optimize Interoperability and Serviceability with Reduced Complexity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



Form Factor	CPU Number	Memory Number
2U4N	2 per node	24 per node

QuantaPlex **T42E-2U**

2U4N Density Optimized Compute Server

QuantaPlex T42E-2U is an ultra-dense four nodes design that supports the latest Intel® Xeon® Scalable Processors, 12 DIMM memory modules, and dual 1 GbE plus dual 10GbE SFP+ networks. It includes all the essential features without excesses to provide optimal data center performance per dollar.



Form Factor	CPU Number	Memory Number
2U4N	2 per node	12 per node

QuantaPlex **T22SF-1U**

Transforming High Density Design

A revolutionary compact 1U chassis that hosts 2 nodes of the next generation Intel® Xeon® Scalable Processors. 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.



Form Factor	CPU Number	Memory Number
1U1N/2N	2 per node	16 per node

QuantaPlex **T21P-4U**

Storage Server

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.



Form Factor	CPU Number	Memory Number
4U1N/2N	2 per node	16 per node

QuantaPlex **T21SR-2U**

Storage Server

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.



Form Factor	CPU Number	Memory Number
2U2N	2 per node	16 per node

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.



Form Factor	CPU Number	Memory Number
2U4N	2 per node	16 per node

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

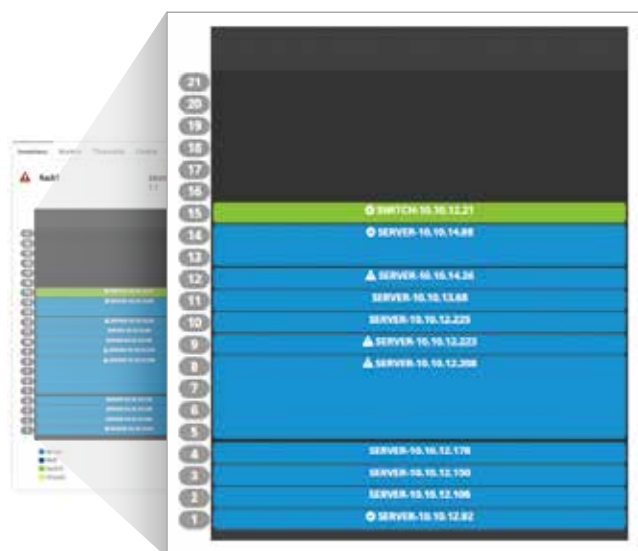
Due to the growing amount of data and density in data centers, managing IT infrastructure has grown in complexity. QCT System Manager (QSM) is the perfect tool to simplify the IT management process. With QSM's intuitive console, IT operators can manage up to 5,000 nodes at the same time. Through QSM's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

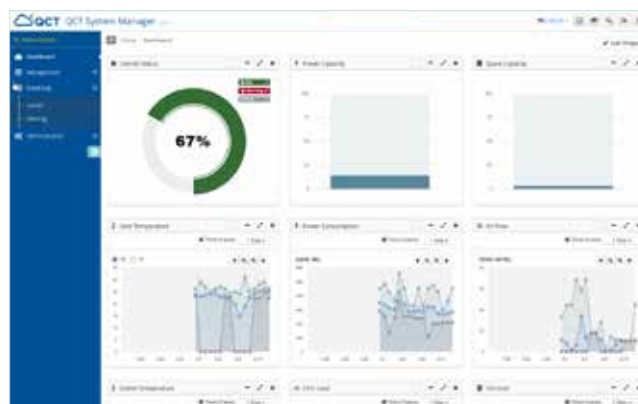
Remote Management

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.



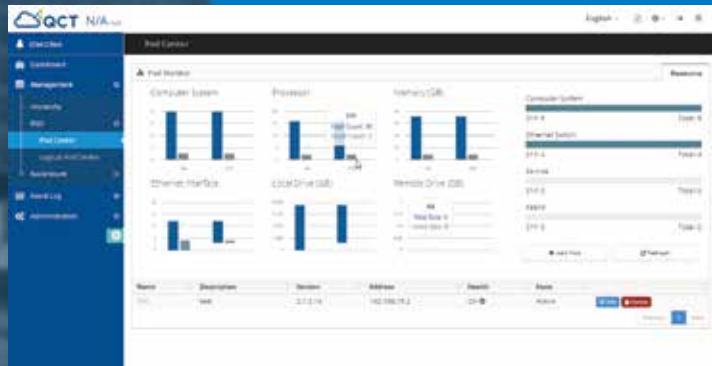
Easy-to-use Interface

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

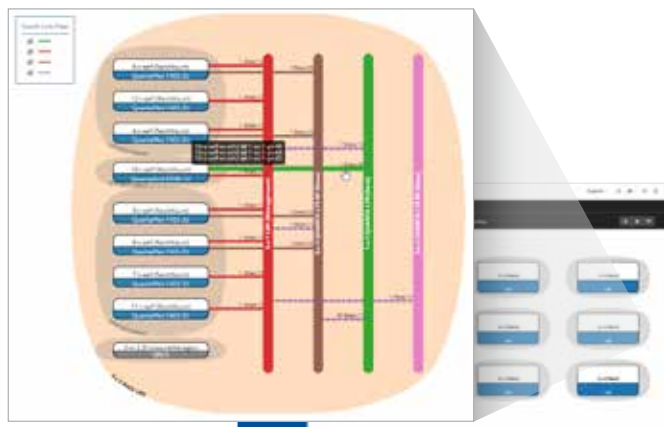
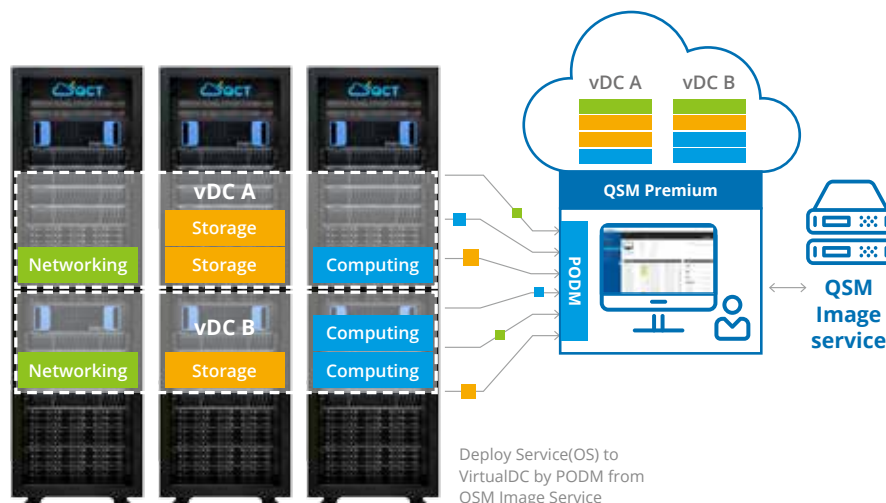
Compose Pooled Resources Across the Data Center for Multi-tenant Use



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 Virtual 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.

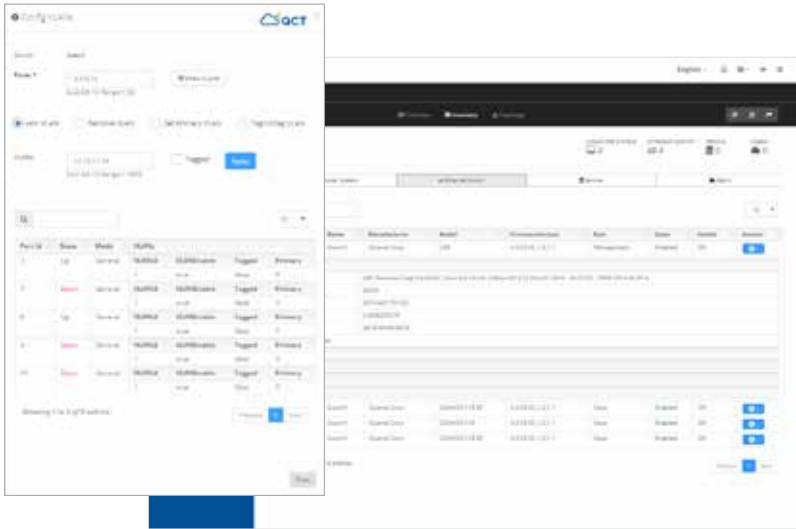


Network Switch Configuration

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.



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

The diagram illustrates the Rackgo R architecture as a 3D stack of components. The top layer includes VMware, Openstack, and Windows. Below this is a layer with QSM Premium and DIY. The next layer is PODM. The bottom layer is divided into PSME, Pooled, and Compute, GPU, Storage, and Network. The PSME layer is further divided into Compute, GPU, Storage, and Network.

PSME Compute	Pooled GPU	Pooled Storage	PSME Network
 QuantaGrid D52B-1U P 9	 QuantaGrid JG4080 P 12	 QuantaVault JB2242 P 22	 QuantaMesh T1048-LB9 P 28
 QuantaGrid D52BQ-2U P 10		 QuantaVault JB4242 P 22	 QuantaMesh T3048-LY8 P 27
 QuantaPlex T42S-2U P 14			 QuantaMesh T3048-LY9 P 28
 QuantaPlex T42D-2U P 15			 QuantaMesh T5032-LY6 P 27
 QuantaGrid Q72D-2U P 10			 QuantaMesh T7032-IX1 P 27



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

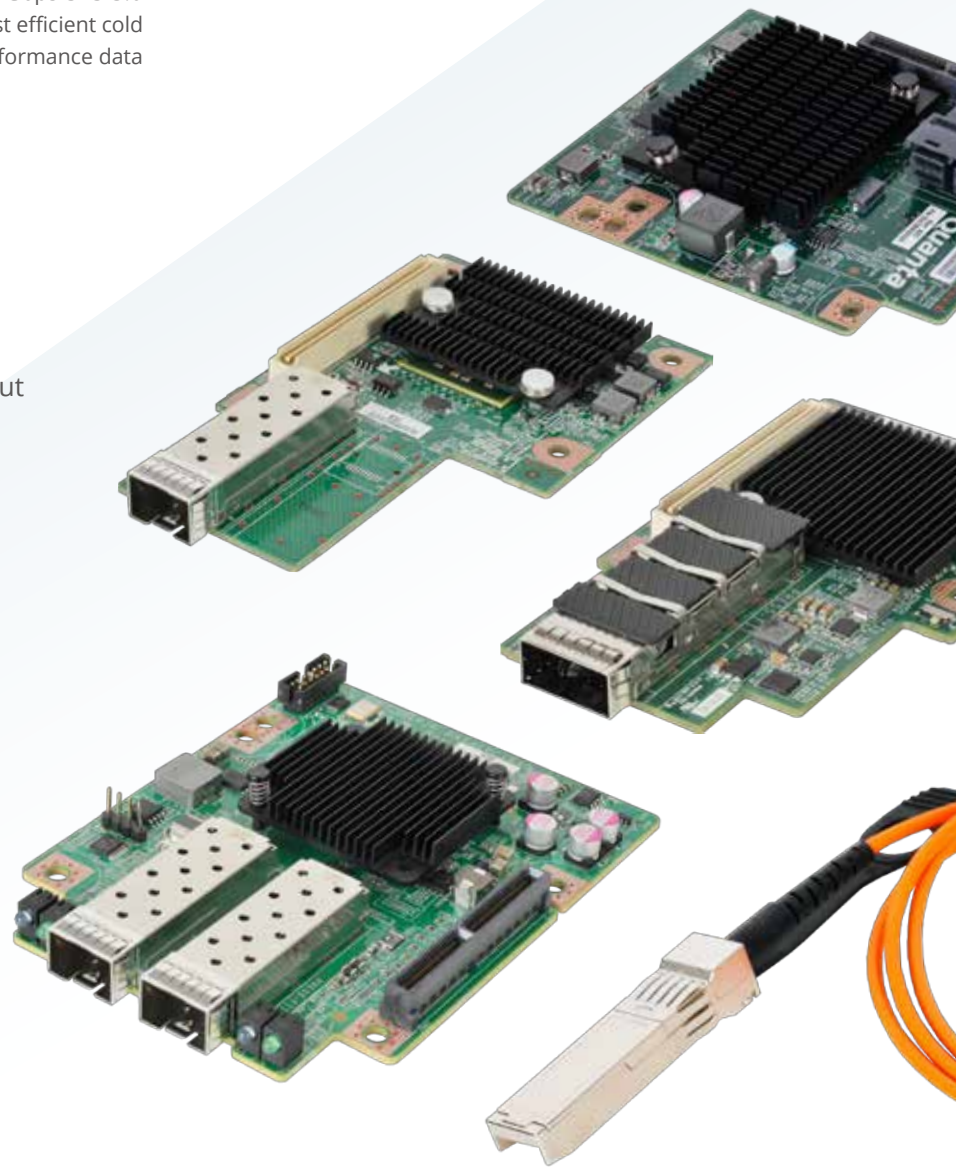
- Versatile LAN Controller Options
- Space-saving OCP Mezzanine Card Design
- Stunningly Affordable High Throughput Experience
- Fully Validated on QCT Products
- One-step Easy Installation

SAS Mezzanine Card

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

Pre-Validated Cables

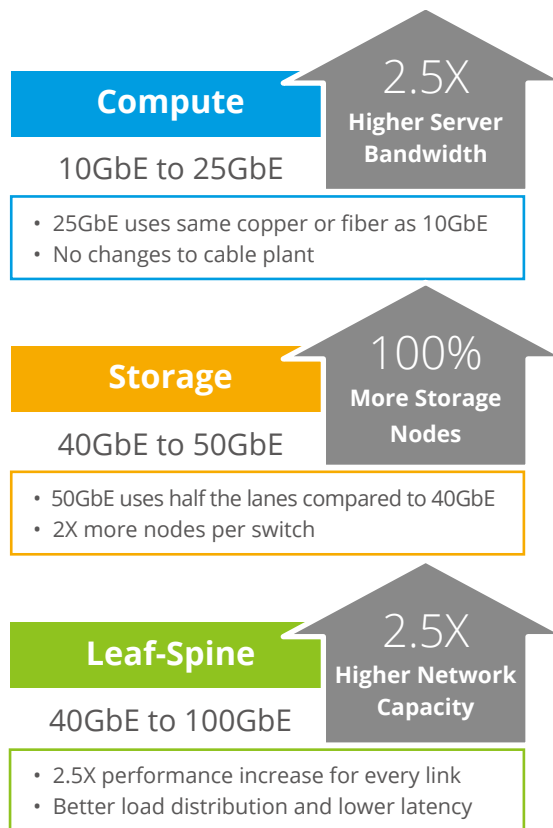
- High Quality Cables Supporting the QCT Mezzanine
- Pre-Validated up to 7 Meter*
- Worldwide Factories with Full Stack and Rack Services



*Cables lengths depends on protocol, please check with a sales representative for more details



Benefit for Transferring to 25/50/100 GbE

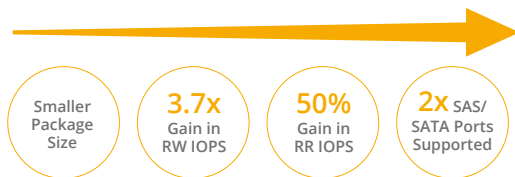


OCP Mezzanine Solutions

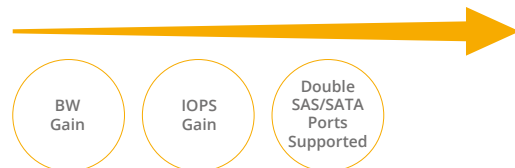
	Connector Type	Port	Model
Ethernet & Infiniband			
1 G	RJ45	2	ON 1GbE I350
10 G	RJ45	2	ON 10GbE X540
	RJ45	1	ON 10GbE X550
10 G	SFP+ / RJ45	4	ON 10GbE 82599-I350
	SFP+	1	ON 10GbE 82599EN-QCT
	SFP+	2	ON 10GbE 82599ES-QCT
	SFP+	2	ON 10GbE Skyhawk P2
25 G	SFP28	2	ON 25GbE QL45204 Dual port
	SFP28	1	ON 25GbE QL45204 Single port
	SFP28	2	ON 25GbE ConnectX-4 Lx EN Dual port
	SFP28	1	ON 25GbE ConnectX-4 Lx EN Single port
40 G	QSFP+	1	ON 40GbE ConnectX-3 PRO IB
	QSFP+	1	ON 40GbE ConnectX-3 PRO EN
100 G	QSFP28	1	ON 100GbE QL45604
	SFP28	4	ON 25GbE BCM957454
PHY board			
1 G	RJ45	2	ON 1GbE I357-T2
	RJ45	4	ON 1GbE I357-T4
10 G	RJ45	2	ON 10GbE X557-DA2
	RJ45	4	ON 10GbE X557-DA4
10 G	SFP+	2	ON 10GbE X527-DA2
	SFP+	4	ON 10GbE X527-DA4

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



IOC	3008	3216
SAS Ports/ Speed	x8, 12 Gb/s	x16, 12 Gb/s
IOPS (4K RAID RR)	1.45M	1.5M
BW (MBs)	6000	6400



SAS Mezzanine Solutions

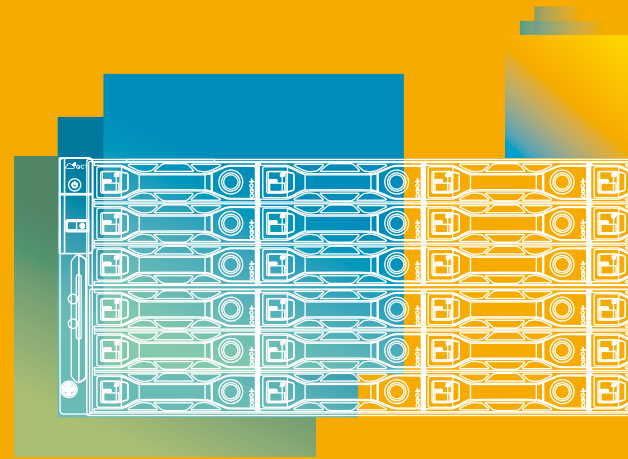
Chip IC	Port	Model Name	Description	QPN
LSISAS3008	2	QS-3008-8i-IR-A*	PCIE BD 3008 ASSY (IR F/W)	3FS5DPB0050
LSISAS3008	2	QS-3008-8i-IT-A*	PCIE BD 3008 ASSY	3FS5DPB0000
LSISAS3108	2	QS-3108-R6-PD32-A*	PCIE BD 3108 ASSY (R6;32HDD) 2G	3FS5DPB0030
LSISAS3108	2	QS-3108-R6-PD240-A*	PCIE BD 3108 ASSY (R6;240HDD) 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

A: QCT standard design

B: Designed for D52B, D52BQ, & Q72D

QuantaVault Series

The design philosophy behind the QuantaVault product line is to create HA (High Availability) storage systems that take into consideration the needs and requirements of enterprise and hyperscale data centers. This ingenious series delivers high reliability, serviceability and availability with hybrid, ultra-dense and hyperconverged infrastructures. This perfect high-end architecture is complete with failover, no single-point-of-failure and data vaulting solutions.



- 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 **JB2242**

Extreme Acceleration Enabled by QCT All NVMe JBOF

At QCT, we believe NVMe SSD is the insanely fast future for SSDs. The JB2242 is capable of running 24 NVMe SSDs, making it QCT's fastest JBOF ever.



- 2** Controller Module
- 24** NVMe U.2 Drives
- Direct Attach Mode/ NVMe over Fabrics Mode

QuantaVault **JB2720**

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 dual-path access, no single-point-of-failure and individual drive power-on/off features, the JB2720 ensures enterprise-class storage systems.



- 2** Controller Module
- 4** External I/O Ports per SIM
- 72** 2.5" SSD

QuantaVault **JB4602**

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 hot-plug/tool-less drives for maximum storage capacity.



- 2** Controller Module
- 4** External I/O Ports per SIM
- 60** 3.5" or 2.5" HDD/SSD

QuantaVault **JB4242**

Versatile Hybrid Disk Expansion Unit

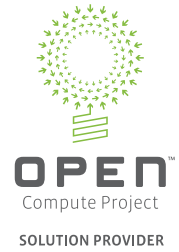
This elegant hybrid system enhances performance, serviceability and reliability. Its unique infrastructure—featuring an out-of-band IPMI remote management and easily accessed cold-aisle design—is ideal for a wide array of applications.



- 2** Controller Module
- 4** External I/O Ports per SIM
- 24** 3.5" or 2.5" HDD/SSD
- + **8** 2.5" SSD

Open Compute Project

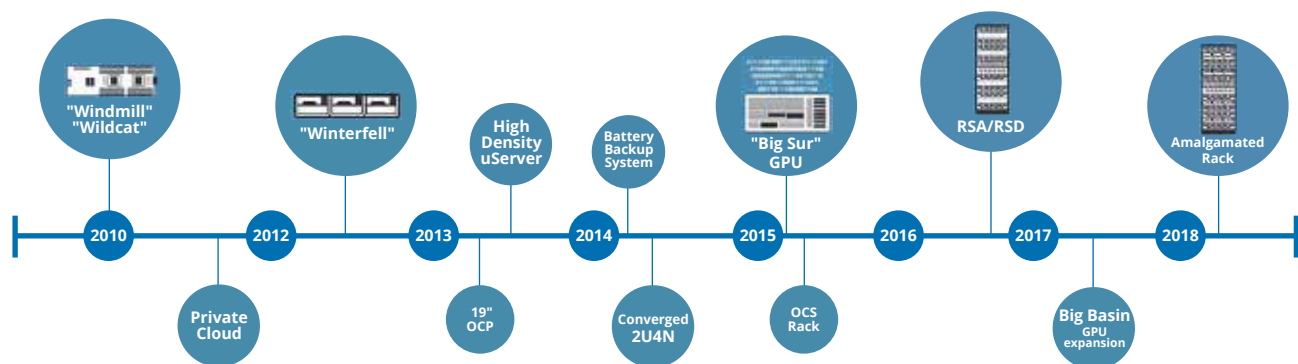
QCT is an advocate for openness and innovation in data center design. Through original design manufacturing partnerships with the prevalent Open Compute Cloud Service Providers, QCT has become a premier solution provider for several of the world's most prominent hyperscale data centers.



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

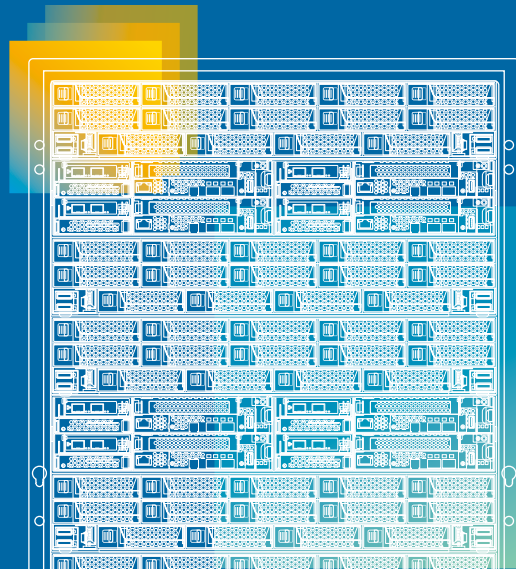


It has been an extremely successful journey for the QCT Open Compute product lines, pioneering numerous groundbreaking and sophisticated designs to lead the industry in extraordinary solutions. QCT will continue this tradition in 2018, with the launching of many revolutionary systems based on the new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



Form Factor	CPU Number	Host Uplink
3 OU	8	4

Rackgo X **Big Sur**

First-Ever Open Compute Project GPU 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.



Form Factor	CPU Number	Memory Number
4 OU	2	16

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.



Form Factor	CPU Number	Memory Number
2 OU3N	2 per node	16 per node

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.



Form Factor	CPU Number	Memory Number
2 OU12N	1 per node	4 per node

* OU=Open Unit=1.89"

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

Rackgo X **F06D (4-Node)**

Revolutionary Converged Multi-node Infrastructure

This next-gen converged infrastructure consolidates high-density 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.



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-plug storage for increased RAID reliability and improved performance.



Rackgo X **Lightning Bolt (3-Node)**

Storage Server

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.



Rackgo X **JBFA**

High Density 2U JBOD with Tool-less Tray Design

The QCT next-gen 12G SAS JBOD enclosure fits an unprecedented 30 disks in a 2OU space. Exquisitely designed with serviceability in mind, the JBFA includes a tool-less tray and rear hot-plug redundant fans.

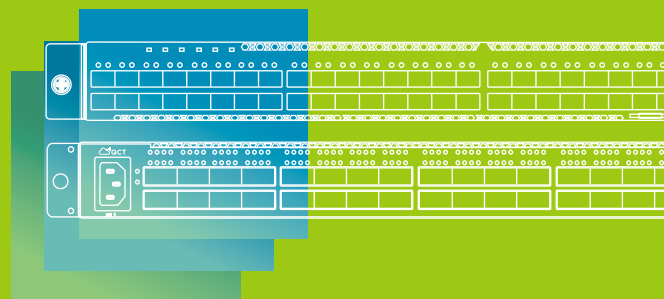


QuantaMesh Series

Data center network switches play a pivotal role in connecting all essential data center resources, including servers, storage equipments and network gears.

The use of high-speed Ethernet switches in data centers is evolving from 10G/40G to 25/50/100G speeds to accommodate high-efficiency demands and to support the high-scale scope of modern data centers.

The QCT QuantaMesh product line of Ethernet switches features low latency, low power consumption, high density, and high port count characteristics as well as redundant power supplies and hot-plug fan esigns to provide the market with the very best of data center network solutions.



- VxLAN
- Multi-Chassis Link Aggregation (MLAG)
- OSPF, BGP4 with ECMP
- Network Automation
- OpenFlow

QCT Network Operating System (QNOS) is the modern software platform for data centers and cloud networks which is based on Broadcom's ICOS platform for tradition L2/L3 features as well as software-defined network (SDN) applications. Inherited from ICOS, QNOS is a proven protocol stack solution that can run on several control plane processors including PowerPC, x86, and ARM with robust operating performance and flexible deployment. For the fundamentals of modern data center networks such as network automation, virtualization, high availability and SDN, QNOS provides a comprehensive feature set to cover all types of applications.

Automation

With the rapid adoption of cloud computing and the proliferation of big data and parallel calculations, the need for data center network devices is growing exponentially, making network automation a critical factor. Supporting auto installation, RESTful, Ansible and PSME (Pooled System Management Engine), QNOS facilitates easy deployment to build-up a mass data center with Infrastructure-as-a-Service (IaaS).

Virtualization

Network virtualization is an important topic for today's data centers. QNOS offers VxLAN features on top of its hardware-based platform to support virtual machine mobility. Not limited by 4K VLANs, VxLAN enables network scale out across L3 subnets and can support up to 16.7M possible virtual networks.

Best-In-Class Networking OS for Cloud

High Availability

For data center network robust operations, QNOS eliminates singlepoint of failure with the following features:

- Spanning Tree with Guarding Features
- Up to 64 Groups of LACP with per Group 32 Member Ports
- Multi-chassis Link Aggregation (MLAG)
- Up to 48 paths ECMP routing for load balancing and redundancy
- Virtual Router Redundancy Protocol (VRRP)

Software Defined Network (SDN)

SDN has emerged as a new approach to support open, vendoragnostic, and programmable networks. QNOS is equipped with OpenFlow v1.3 features to fulfill the needs of modern data center applications.



QuantaMesh **T7064-IX4**

Next-Generation 100G Spine Switch for Data Center and Cloud Computing



onle



- x86 CPU board
- BMC Built-in
- Multiple NOS



QuantaMesh **T7032-IX7**

Next-Generation 100G Spine or ToR Switch for Data Center and Cloud Computing

CUMULUS



onle



- x86 CPU board
- BMC Built-in
- SDN Ready
- Multiple NOS

QuantaMesh **T7032-IX1/IX1B**

Next-Generation 100G Spine or ToR Switch for Data Center and Cloud Computing

CUMULUS



onle



- x86 CPU board
- BMC Built-in
- SDN Ready
- Multiple NOS

QuantaMesh **T5032-LY6**

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

CUMULUS



onle



- x86 CPU board
- P2020 CPU board
- SDN Ready
- Multiple NOS

QuantaMesh **T4048-IX8**

Next-Generation 25G/100G ToR Switch for Data Center and Cloud Computing

CUMULUS



onle



- x86 CPU board
- BMC Built-in
- SDN Ready
- Multiple NOS

QuantaMesh **T4048-IX3**

Next-Generation 25G/100G ToR Switch for Data Center and Cloud Computing



onle



- x86 CPU board
- BMC Built-in
- Multiple NOS



QuantaMesh **T3048-LY7**

The Next Wave 10/100G Enterprise Data Center Switch

CUMULUS



onle



- x86 CPU board
- BMC Built-in
- Multiple NOS

QuantaMesh **T3048-LY8**

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

CUMULUS



onle



- x86 CPU board
- P2020 CPU board
- SDN Ready
- Multiple NOS

QuantaMesh **T3048-LY9A**

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



onle



- P2020 CPU board
- SDN Ready

QuantaMesh **T3048-LY9**

A Powerful 10GBASE-T ToR Switch for Data Center and Cloud Computing

CUMULUS



onle



- x86 CPU board
- P2020 CPU board
- SDN Ready
- Multiple NOS

QuantaMesh **T3048-LY2R**

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

CUMULUS



onle



- SDN Ready
- Multiple NOS

QuantaMesh **T3024-P05**

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



onle



- SDN Ready

QuantaMesh **T3040-LY3**

A Powerful 10GBASE-T ToR Switch for Data Center and Cloud Computing



onle



- SDN Ready

QuantaMesh **T1048-LB9**

1G/10G Data Center & Enterprise-Class Ethernet Switch

CUMULUS



onle



- SDN Ready
- Multiple NOS

QuantaMesh **T1048-LY4R**

The Next Wave Data Center Rack Management Switch

CUMULUS



onle



- x86 CPU board
- BMC Built-in
- Multiple NOS



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.



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), high-computing (HC) intensive workloads, and three-dimensional (3D) graphic computing. Powered by market-proven software - VMware Horizon® - these desktop virtualization solutions are unique in their ease of implementation and management.



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).



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).



QxStack VMware Edition- vSAN ReadyNode™

Flexible Virtualization Architecture to Fulfill
Your Workload Solutions



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

QxStack VMware Edition-VRN is a series of hyper-converged 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. QxStack VMware Edition-VRN helps you fully utilize not only compute but also storage resources by breaking traditional storage silos. It also promotes simplicity, agility, manageability, and lowers TCO when building clouds.



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



QxStack NFV Infrastructure with Red Hat OpenStack Platform

A Carrier-Grade Infrastructure Pre-Integrated and Validated for Network Service Providers



- EPA for Network Enhancement
- OPNFV Test Validation
- Auto-Deployment Tool

QxStack NFV Infrastructure with Red Hat OpenStack Platform is an optimized design for network service providers. It adopts QCT's hardware powered by Intel's technologies and is integrated with the Red Hat OpenStack Platform, which featuring scalability and high availability. QCT implements Enhanced Platform Awareness (EPA) features and is validated by Open Platform for NFV (OPNFV) Yardstick test suites to provide a carrier-grade solution.



QxStack Ubuntu OpenStack Edition

A Proven HA Architecture with Faster Time-to-Value



- Time Savings: 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 business needs. By leveraging MAAS and Juju, customers can deploy OpenStack services in days with flexible architectures.

Microsoft

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.



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.



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 scale-out 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 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 ultra-dense 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.



QxStor Cloudian Edition-Hyperstore®

AWS S3-Compatible, Enterprise-Grade Storage



- 100% Amazon S3 Supported
- 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 on-premise, petabyte-scalable 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%.

Microsoft

QxStor Microsoft Storage Space Direct

Best of Breed Software-Defined Storage Solution with Proven Track Record



- Optimized and Validated
- Flexibly and Dynamically Scale
- Proven Track Record

QxStor Microsoft Storage Space Direct (S2D) focuses on optimizing the software-defined storage features in Windows Server 2016. In the hyperconverged deployment model, Storage Spaces Direct can cost-effectively scale up to 16 nodes. As the leading brand in the Windows Server Software Defined Program, QCT has developed multiple offerings suitable for different enterprise scale and usage with a proven track record leveraging different storage devices along with leading hardware technology.



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



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 Database Solution for Microsoft SQL

Validated Microsoft Data Warehouse Fast Track Solution



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

The QxData Database Solution for Microsoft SQL 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 price-to-performance ratio, reduced maintenance cost, and ensured high performance to address business analytics needs.

Specifications

QuantaGrid Series



QuantaGrid D52B-1U			
SKU	[All Flash SKU]	[SFF Tiered SKU]	[Hybrid SKU]
Processor	(2) Intel® Xeon® Scalable Processors, Up to 165W TDP		
Chipset	Intel® C621/C624		
Memory	Up to 3TB RDIMM/LRDIMM (24) 2666 MHz DDR4 RDIMM/LRDIMM		
Storage	(12) 2.5" hot-plug SATA/NVMe SSD	(8) 2.5" hot-plug SATA/SAS drives (4) 2.5" hot-plug NVMe/SATA/SAS SSD	Option 1 (3PCIe): (4) 3.5"/2.5" hot-plug SATA/SAS HDD/SSD (4) 9mm NVMe/SATA/SAS HDD/SSD (optional) Option 2 (2PCIe): (4) 3.5"/2.5" hot-plug SATA/SAS HDD/SSD (4) 9mm SATA/SAS HDD/SSD (optional)
Network Controller	(1) OCP 2.0 mezzanine or PHY card (1) 1 GbE Dedicated management port		
Expansion Slot	(2PCIe): (1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY card (1) PCIe Gen3 x16 LP MD-2 (1) PCIe Gen3 x8 FHHL	Option 1 (3PCIe): (1) PCIe Gen3 x16 SAS mezzanine slot (1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY card (1) PCIe Gen3 x16 LP MD-2 (2) PCIe Gen3 x8 LP MD-2 Option 2 (2PCIe): (1) PCIe Gen3 x16 SAS mezzanine slot (1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY card (1) PCIe Gen3 x8 FHHL (1) PCIe Gen3 x16 LP MD-2	Option 1 (3PCIe): (1) PCIe Gen3 x16 SAS mezzanine slot (1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY card (1) PCIe Gen3 x16 LP MD-2 (2) PCIe Gen3 x8 LP MD-2 Option 2 (2PCIe): (1) PCIe Gen3 x16 SAS mezzanine slot (1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY card (1) PCIe Gen3 x16 FHHL (1) PCIe Gen3 x16 LP MD-2
Form Factor	1U Rackmount		



	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 SSD) 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 SSD	(10) 2.5" hot-plug (support PCIe-based interface)	Option 1: (10) 2.5" hot-plug Option 2: (4) 3.5" hot-plug (2) 2.5" fixed SSD
Network Controller	Option 1: (2) 1 GbE Intel® I350 LoM (1) 1 GbE Dedicated management port Option 2: (2) 10 GbE Intel® X540 LoM (1) 1 GbE Dedicated management port	Option 1: (2) 1 GbE Intel® I350 LoM (1) 1 GbE Dedicated management port Option 2: (2) 10 GbE Intel® X540 LoM (1) 1 GbE Dedicated management port	(2) 1 GbE Intel® I350 LoM (1) 1 GbE Dedicated management port
Expansion Slot	Option 1 (default): (1) PCIe Gen3 x8 SAS mezzanine slot (1) PCIe Gen3 x16 FHHL (1) PCIe Gen3 x8 OCP mezzanine slot Option 2: (1) PCIe Gen3 x16 LP MD-2 (1) PCIe Gen3 x16 FHHL (1) PCIe Gen3 x8 OCP mezzanine slot	Option 1 (default): (1) PCIe Gen3 x8 SAS mezzanine slot (1) PCIe Gen3 x8 OCP mezzanine slot (2) PCIe Gen3 x8 LP MD-2 Option 2 (Does not support 2.5" PCIe SSD): (1) PCIe Gen3 x8 SAS mezzanine slot (1) PCIe Gen3 x8 OCP mezzanine slot (2) PCIe Gen3 x16 LP MD-2	Option 1 (default): (1) PCIe Gen3 x8 SAS mezzanine slot (1) PCIe Gen3 x16 OCP mezzanine slot Option 2: (1) PCIe Gen3 x8 QCT LAN mezzanine slot (1) PCIe Gen3 x16 OCP mezzanine slot
Form Factor	1U Rackmount	1U Rackmount	1U Rackmount





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 SSD	(4) 3.5" or 2.5" hot-plug (2) 2.5" fixed SSD	
Network Controller	Option 1: (2) 1 GbE Intel® I210 LoM (1) 1 GbE Dedicated management port Option 2: (2) 1 GbE Intel® I210 LoM (2) 1 GbE Intel® I350 LoM (1) 1 GbE Dedicated management port	(2) 1 GbE Intel® I210 LoM (1) 1 GbE Dedicated 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 mezzanine slot Option 2: (1) PCIe Gen3 x8 QCT mezzanine slot (1) PCIe Gen3 x8 LP MD-2 (1) PCIe Gen3 x16 OCP mezzanine slot	(1) PCIe Gen3 x8 FHHL (1) PCIe Gen3 x8 OCP mezzanine slot	
Form Factor	1U Rackmount	1U Rackmount	



QuantaGrid D52BQ-2U						
SKU	[LFF SATA/SAS SKU]	[LFF Tiered SKU]	[SFF Pass-through SKU]	[SFF SAS3224 Paddle SKU]	[SFF SAS35x40 Expander SKU]	[LFF SATA/SAS 3UPI Balanced SKU]
Processor	(2) Intel® Xeon® Scalable Processors, Up to 205W TDP					
Chipset	Intel® C621/C624					
Memory	Up to 3TB RDIMM/LRDIMM (24) 2666 MHz DDR4 RDIMM/LRDIMM					
UPI	2 UPI					3 UPI
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)	(Front Storage): (12) 3.5"/2.5" hot-plug SATA/SAS drives (Rear Storage): (2) 2.5" hot-plug SATA/SAS drives (optional)
Network Controller	(1) OCP 2.0 mezzanine or PHY card (1) 1 GbE Dedicated management port					
Expansion Slot	(1) PCIe Gen3 x16 SAS mezzanine slot (1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY card (2) PCIe Gen3 x8 FHHL or (1) PCIe Gen3 x16 FHHL (3) PCIe Gen3 x8 FHHL or (1) PCIe Gen3 x16 + (1) PCIe x8 FHHL (1) PCIe 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 x8 FHHL (3) PCIe Gen3 x8 FHHL or (1) PCIe Gen3 x16 + (1) PCIe x8 FHHL (1) PCIe Gen3 x16 LP MD-2	(1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY card (2) PCIe Gen3 x8 FHHL or (1) PCIe Gen3 x16 FHHL (1) PCIe Gen3 x16 FHHL (1) PCIe Gen3 x16 LP MD-2* *Must use with SAS add-on card	(1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY card (2) PCIe Gen3 x8 FHHL or (1) PCIe Gen3 x16 FHHL (3) PCIe Gen3 x8 FHHL or (1) PCIe Gen3 x16 + x8 FHHL (1) PCIe Gen3 x16 LP MD-2	Option 1: (1) PCIe Gen3 x16 SAS mezzanine slot or PHY card (2) PCIe Gen3 x8 FHHL or (1) PCIe Gen3 x16 FHHL (3) PCIe Gen3 x8 FHHL or (1) PCIe Gen3 x16 + (1) PCIe x8 FHHL (1) PCIe Gen3 x16 LP MD-2 Option 2: (1) PCIe Gen3 x16 SAS mezzanine slot or PHY card (2) PCIe Gen3 x8 FHHL or (1) PCIe Gen3 x16 FHHL (3) PCIe Gen3 x8 FHHL or (1) PCIe Gen3 x16 + x8 FHHL (3) PCIe Gen3 x8 LP MD-2 or (1) PCIe Gen3 x16 + (1) PCIe x8 LP MD-2	(1) PCIe Gen3 x8 SAS mezzanine slot (1) PCIe Gen3 x8 OCP 2.0 mezzanine slot or PHY card (2) PCIe Gen3 x16 LP MD-2 (2) PCIe Gen3 x16 FHHL (2) 22110/2280 SATA M.2 slots
Form Factor	2U Rackmount					



QuantaGrid Q72D-2U				QuantaGrid D52BM-2U
SKU	[All Flash SKU]	[Tiered SKU]	[SATA/SAS SKU]	-
Processor	(4) Intel® Xeon® Scalable Processors per node			(2) Intel® Xeon® Scalable Processors, Up to 205W TDP
Chipset	Intel® C621/C624			Intel® C621/C624
Memory	(48) 2666 MHz DDR4 RDIMM/LRDIMM			(24) 2666 MHz DDR4 RDIMM/LRDIMM
Storage	(16) 2.5" hot-plug NVMe Drives	(4) 2.5" hot-plug NVMe drives (12) SATA Drives	(16) 2.5" hot-plug SAS/ SATA Drives	Option 1 (Front Storage): (12) 3.5"/2.5" hot-plug SATA/SAS drives (Rear Storage): (4) 3.5"/2.5" hot-plug SATA/SAS drives + (2) 2.5" 7mm fixed SATA SSD Option 2 (Front Storage): (8) 3.5"/2.5" hot-plug SATA/SAS drives + (4) 3.5"/2.5" hot-plug NVMe/SATA/SAS drives (Rear Storage): (4) 3.5"/2.5" hot-plug SATA/SAS drives + (2) 2.5" 7mm fixed SATA SSD
Network Controller	(1) OCP 2.0 mezzanine or PHY card (1) 1 GbE Dedicated management port			(1) OCP 2.0 mezzanine or PHY card (1) 1 GbE Dedicated management port
Expansion Slot	(1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY board (2) PCIe Gen3 x24 riser slot : (2) PCIe Gen3 x8 FHHL (2) PCIe Gen3 x16 FHHHL (Option : (2) GPGPU) (1) PCIe Gen3 x32 riser slot : (2) PCIe Gen3 x16 LP MD-2 (1) PCIe Gen3 x16 SAS mezzanine slot			Option 1: (1) PCIe Gen3 x16 SAS mezzanine slot (1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY card (2) PCIe Gen3 x16 LP MD-2 (1) PCIe Gen3 x8 LP MD-2 Option 2: (1) PCIe Gen3 x16 SAS mezzanine slot (1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY card (1) PCIe Gen3 x16 LP MD-2 (2) PCIe Gen3 x8 LP MD-2
Form Factor	2U Rackmount			2U Rackmount



QuantaGrid D52BV-2U		QuantaGrid D51B-2U	QuantaGrid D51BV-2U
Processor	(2) Intel® Xeon® Scalable Processors, 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	Intel® 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) 3.5"/2.5" hot-plug SATA (4) 2.5" hot-plug PCIe SSDs	Option 1: (24) 2.5" hot-plug (2) optional rear 2.5" hot-plug (2) optional rear 2.5" hot-plug PCIe SSD Option 2: (12) 3.5" hot-plug (2) optional rear 2.5" hot-plug (2) optional rear 2.5" hot-plug PCIe SSD	Option 1: (10) 3.5" hot-plug SATA Option 2: (12) 3.5" hot-plug (requires additional SAS/ RAID card)
Network Controller	(1) OCP 2.0 mezzanine or PHY card (1) 1 GbE Dedicated management port	Option 1: (2) 1 GbE Intel® I350 LoM (1) 1 GbE Dedicated management port Option 2: (2) 10 GbE Intel® X540 LoM (1) 1 GbE Dedicated management port	Option 1: (2) 1 GbE Intel® I350 LoM (1) 1 GbE Dedicated management port Option 2: (2) 10 GbE Intel® X540 LoM (1) 1 GbE Dedicated management port
Expansion Slot	Option 1: [8x SATA SKU] (4) PCIe Gen3 x16 GPU slot (1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY card (2) PCIe Gen3 x16 LP-MD2 or (1) LP MD-2 PCIe x16 Option 2: [8x SATA/SAS SKU] (4) PCIe Gen3 x16 GPU slot (1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY card (1) PCIe Gen3 x8 LP MD-2 (1) PCIe Gen3 x8 LP MD-2 SAS mezzanine slot Option 3: [4x SATA+ 4x NVMe SKU] (4) PCIe Gen3 x16 GPU slot or (2) GPU + (2) PCIe Gen3 x16 FHHL (1) PCIe Gen3 x16 OCP 2.0 mezzanine slot or PHY card Option 4: [8x SATA SKU] (4) PCIe Gen3 x16 GPU slot (2) PCIe Gen3 x16 LP-MD2	Option 1 (default): (1) PCIe Gen3 x8 SAS mezzanine slot (2) PCIe Gen3 x8 LP MD-2 (1) PCIe Gen3 x8 FHHL (1) PCIe Gen3 x16 FHHL (1) PCIe Gen3 x8 OCP mezzanine slot Option 2: (1) PCIe Gen3 x16 LP MD-2 (2) PCIe Gen3 x8 FHHL (1) PCIe Gen3 x16 FHHL (1) PCIe Gen3 x8 OCP mezzanine slot	(2) PCIe Gen3 x16 double-width FHFL (2) PCIe Gen3 x8 LP MD-2 (1) PCIe Gen3 x8 LAN mezzanine slot
Form Factor	2U Rackmount	2U Rackmount	2U Rackmount





	QuantaGrid D52G-4U	QuantaGrid D51PL-4U	QuantaGrid Q71L-4U
Processor	(2) Intel® Xeon® Scalable Processors, up to 205W TDP	Intel® Xeon® Processor E5-2600 v4 Product Family	(4) Intel® Xeon® Processor E7-4800 v4 / E7-8800 v4 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 RDIMM/LRDIMM	(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" PCIe SSD) * (2) NVMe PCIe SSDs supported onboard, (2) additional available with add-on PCIe card.
Network Controller	(1) 1 GbE Dedicated management port	(2) 1 GbE Intel® I350 LoM (1) 1 GbE Dedicated management port	Option 1: (2) 1 GbE Intel® I350 LoM (1) 1 GbE Dedicated management port Option 2: (2) 10 GbE Intel® X540 LoM (1) 1 GbE Dedicated management port
Expansion Slot	x86 motherboard: (1) PCIe Gen3 x8 OCP 2.0 mezzanine slot or PHY Card (1) PCIe Gen3 x8 SAS mezzanine slot (can switch to 2x PCIe SSDs) Option 1: (1) PCIe Gen3 x8 FHFL slot (1) PCIe Gen3 x8 LP-MD2 slot (can switch to 2x PCIe SSDs) Option 2: (1) LP-MD2 slot without PCIe signal (1) PCIe Gen3 x16, FHFL slot Baseboard: Option 1: (8) PCIe Gen3 x16 dual-width FHFL slot + (2) PCIe Gen3 x16 LP-MD2 or (10) PCIe Gen3 x16 dual-width FHFL slot Option 2: (16) PCIe Gen3 x16 single-width FHFL slot + (4) PCIe Gen3 x16 LP-MD2 slot or (20) PCIe Gen3 x16 single-width FHFL slot or (8) PCIe Gen3 x16 dual-width FHFL slot + (4) PCIe Gen3 x16 LP-MD2 slot	-	(2) PCIe Gen3 x16 FH 3/4L (8) PCIe Gen3 x8 FHFL (1) PCIe Gen3 x8 SAS mezzanine slot (1) PCIe Gen3 x8 QCT network mezzanine slot
Form Factor	4U Rackmount	4U Rackmount	4U Rackmount



	QuantaGrid D52T-1ULH	QuantaGrid D51PH-1ULH	QuantaGrid SD1Q-1ULH
Processor	(2) Intel® Xeon® Scalable Processors	(2) Intel® Xeon® Processor E5-2600 v3/E5-2600 v4 Product Family	(1) Intel® Xeon® Processor D-1531/ D-1541/ D-1567, SoC 6cores/ 8cores/ 12cores
Chipset	Intel® C621/C624	Intel® C610	-
Memory	(12) 2666MHz DDR4 RDIMM/LRDIMM	(16) 2400 MHz DDR4 RDIMM/LRDIMM	(4) 2400 MHz DDR4 RDIMM
Storage	(12) 3.5" hot-plug HDD (4) 2.5" 7mm U.2 SSD	(12) 3.5"/2.5" hot-plug SATA/SAS HDD/SSD (4) 2.5" hot-plug 7mm SATA SSD (1) Internal SATA DOM	(12) 3.5"/2.5" hot-plug SATA/SAS HDD/SSD (4) 2.5" hot-plug 7mm SATA SSD (1) PCIe 2280 M.2 SSD (2) 2.5" 7mm SATA SSD for OS
Onboard Storage	(2) PCIe/SATA 2280 M.2	-	-
Network Controller	(1) 1 GbE Dedicated management port Optional: (2) or (4) 10 GbE Intel® X527 SFP+ PHY card (2) or (4) 10 GbE Intel® X557 RJ45 PHY card (2) or (4) 1 GbE Intel® I357 RJ45 PHY card	(2) 1 GbE Intel® I350 LoM (1) 1 GbE Dedicated management port	(2) 10 GbE Intel® X552 LoM (1) 1 GbE Dedicated management port
Expansion Slot	(1) PCIe Gen3 x16 LP-MD2 (1) PCIe Gen3 x16 OCP 2.0 mezzanine slot (1) PCIe Gen3 x16 SAS mezzanine slot	(1) PCIe Gen3 x16 OCP mezzanine slot	(1) PCIe Gen3 x8 OCP mezzanine slot (1) PCIe Gen3 x8 SAS mezzanine slot
Form Factor	1U Rackmount	1U Rackmount	1U Rackmount



QuantaGrid JG4080		
SKU	[Static SKU]	[RSD SKU]
Controller Module	-	(1) MCPU Board
Bridge Board	(1) PCIe Switch	
Accelerators On Baseboard	Option 1: 2x PLX baseboard: (10) double-width GPU Or (8) double-width GPU + (2) PCIe Gen3 x16 LP-MD2	Option 1: 2x PLX baseboard: (8) double-width GPU (4) PCIe Gen3 x16 LP-MD2(on bridge-board)
	Option 2: 4x PLX baseboard: (20) single-width GPU/FPGA Or (16) single-width GPU/FPGA (4) PCIe Gen3 x16 LP-MD2	Option 2: 4x PLX baseboard: (20) single-width GPU/FPGA
	Option 3: SXM2 baseboard: (8) Nvidia®Tesla® V100 SXM2 (4) PCIe Gen3 x16 LP-MD2	-
Management Port	(1) 1 GbE Dedicated management port via AST2500	(1) 1 GbE Dedicated management port via MCPU
External IO Ports to Host Server	Up to 2 Hosts* (2) mini-SAS HD Port with PCIe Gen3 x16 * SXM2 support one host only	Up to 4 Hosts (4) mini-SAS HD Port with PCIe Gen3 x16
PSU	(4) 1600W 220-240VAC PSUs, Platinum	
Fan	(4) dual rotor 9256 Fans	
Form Factor	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 per node, Up to 165W TDP	(2) Intel® Xeon® Scalable Processors per node, Up to 165W TDP	(2) Intel® Xeon® Scalable Processors per node	
Chipset	Intel® C621/C624	Intel® C621/C624	Intel® C621/C624	
Memory	(16) 2666 MHz DDR4 RDIMM/LRDIMM per node	(16) 2666 MHz DDR4 RDIMM/LRDIMM per node	(24) 2666 DDR4 RDIMM/LRDIMM per node	
Storage	Option 1: (24) 2.5" hot-plug SATA/SAS Option 2: (12) 3.5"/2.5" hot-plug SATA/SAS	(16) 2.5" hot-plug SATA/SAS (8) 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) 1 GbE Dedicated management port per node	(1) OCP 2.0 mezzanine or PHY card per node (1) 1 GbE Dedicated management port per node	(1) OCP 2.0 mezzanine or PHY card per node (1) 1 GbE Dedicated management port per node	
Expansion Slot	(1) PCIe Gen3 x16 LP MD-2 per node (1) PCIe Gen3 x8 for SAS mezzanine slot per node (1) PCIe Gen3 x16 for OCP 2.0 mezzanine slot per node (1) PCIe Gen3 x2 for 2280/22110 M.2 per node	(1) PCIe Gen3 x16 LP MD-2 per node (1) PCIe Gen3 x8 for SAS mezzanine slot per node (1) PCIe Gen3 x16 for OCP 2.0 mezzanine slot per node (1) PCIe Gen3 x2 for 2280/22110 M.2 per node	(2) PCIe Gen3 x16 LP MD-2 per node (1) PCIe Gen3 x16 OCP 2.0 mezzanine slot per node	
Form Factor	2U Rack Mount, 4 Nodes	2U Rack Mount, 4 Nodes	2U Rack Mount, 4 Nodes	





	QuantaPlex T42E-2U	QuantaPlex T22SF-1U	QuantaPlex T21P-4U
Processor	(2) Intel® Xeon® Scalable Processors per node, Up to 140W TDP	(2) Intel® Xeon® Scalable Processors per node, Up to 165W TDP	(2) Intel® Xeon® Processor E5-2600 v3/E5-2600 v4 Product Family per node
Chipset	Intel® C622	Intel® C621/C624	Intel® C610
Memory	(12) 2666 MHz DDR4 RDIMM per node	(16) 2666 MHz DDR4 RDIMM/LRDIMM per node	(16) 2400 MHz DDR4 RDIMM/ LRDIMM per node
Storage	Option 1: (24) 2.5" hot-plug SATA/SAS Option 2: (12) 3.5"/2.5" hot-plug SATA/SAS Option 3: Non-storage	(2) 2.5" SATA/NVMe SSD per node Or (14) 2.5" SATA SSD per storage sled	SKU 1: (70) 3.5"/2.5" hot-plug, (2) MB manages (35) HDD each SKU 2: (78) 3.5"/2.5" hot-plug
Onboard Storage	-	(1) SATA/PCIe M.2 2280/22110 per node	-
Network Controller	(2) 10 GbE Intel® PCH C622 LoM (2) 1 GbE Intel® PCH C622 LoM (1) 1 GbE Dedicated management port	(1) 1 GbE Dedicated management port per node	(2) 1 GbE Intel® I350 LoM (1) 1 GbE Dedicated management port
Expansion Slot	(1) PCIe Gen3 x16 LP MD-2 per node	(1) PCIe Gen3 x16 HHHL slot per node* (1) PCIe Gen3 x16 OCP 2.0 mezzanine slot per node (1) PCIe Gen3 x8 SAS mezzanine slot per node**	(1) PCIe Gen3 x16 OCP mezzanine slot (1) PCIe Gen3 x8 riser HHHL (1) PCIe Gen3 x8 riser HHHL or SAS mezzanine slot (1) PCIe Gen3 x16 riser FHHL
Form Factor	2U Rack Mount, 4 Nodes	1U Rackmount, 2 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 HDD/SSD (2) 2.5" hot-plug HDD/SSD for OS installation per node (1) USB Flash Module Option 2: (24) 2.5" hot-plug shared SAS HDD/SSD (2) 2.5" hot-plug HDD/SSD 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 SSD) 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	(1) PCIe Gen3 x8 for Intel® Non-Transparent Bridge (NTB) per node (1) PCIe Gen3 x8 for 10G Base-KR per node (2) PCIe Gen3 x8 LP MD-2 per node (1) PCIe Gen3 x8 for SAS controller per node	(1) PCIe Gen3 x16 LP MD-2 per node (1) PCIe Gen3 x8 mezzanine slot per node (1) PCIe Gen3 x8 OCP mezzanine slot per node	(1) PCIe Gen3 x16 LP MD-2 per node (1) PCIe Gen3 x8 mezzanine slot per node (1) PCIe Gen3 x8 OCP mezzanine slot per node
Form Factor	2U Rackmount, 2 Nodes	2U Rackmount, 4 Nodes	2U Rackmount, 4 Nodes

QuantaVault Series



	QuantaVault JB2242	QuantaVault JB2720	QuantaVault JB4602	QuantaVault JB4242
PIM (PCIe Interface Module)	24 NVMe SKU: 2x PCIe 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 Status LED x4, mini-SAS HD Port Fail LED x4, RJ45 Management Port System Power LED Micro-USB Console 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	(24) 2.5" NVMe U.2 SSD	(72) 2.5" hot-plug 7mm/15mm SATA/SAS HDD/SSD	(60) 3.5" or 2.5" hot-plug SATA/SAS HDD/SSD	(24) 3.5" or 2.5" hot-plug SATA/SAS HDD/SSD (8) 2.5" hot-plug SATA/SAS SSD (optional)
Management Port	(1) 1 GbE Dedicated management port	(1) Mini USB management port per SIM	(1) Mini USB management port per SIM (1) 1 GbE Dedicated management port per SIM	(1) Mini USB management port per SIM (1) 1 GbE Dedicated management port per SIM
Fan	(4) 6056 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 86mm 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 Rack Mount	2U Rackmount	4U Rack Mount	4U Rackmount

QuantaMicro Series



QuantaMicro X10E-9N	
Processor	(2) Intel® Xeon® Processor E3-1200 v5/ E3-1200 v6 Product Family per node
Chipset	Intel® C236
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) 1 GbE QCT Intel® I350 mezzanine card Option 2: (2) 1 GbE QCT Intel® I350 mezzanine card
Expansion Slot	(1) Mezzanine supporting PCIe Gen3 x8 for LAN and PCIe Gen3 x4 for M.2
Form Factor	3U Rackmount, 9 Nodes

Rackgo X Series



Big Basin	
GPUs	(8) Nvidia Tesla P100 – SXM2
Management Port	(1) 1 GbE Dedicated management port
Integrated BMC chip	Aspeed AST2500
Front I/O	(1) Debug port
Expansion Slot	(4) PCIe Gen3 x16 FHHL slot (2) PCIe 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 RDIMM/LRDIMM per node	(4) 2133MHz DDR4 RDIMM per node
Drive Bay	(8) 2.5" hot-plug 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 40GbE SFP+ dual port OCP mezzanine card or (1) QCT 56G QSFP+ single port OCP 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 40GbE SFP+ dual port OCP mezzanine card or (1) QCT 56G QSFP+ single port OCP mezzanine card	(1) Aggregated Mellanox CX4-LX Multi-host network card per (4) nodes
Expansion Slot	(1) PCIe Gen3 x8 OCP mezzanine card (1) PCIe Gen3 x8 QCT SAS mezzanine card	(1) PCIe Gen3 x8 OCP mezzanine card per node (1) PCIe Gen3 x16 FHHL PCIe card per node (1) PCIe 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 PCIe 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 DDR4 RDIMM per node
Drive Bay	(8) 2.5" hot-plug per node	(2) 2.5" hot-plug per node	(16) 2.5" hot-plug NVMe SSD
Network Controller	(1) OCP mezzanine slot per node (1) 1 GbE Dedicated management port per node	(1) OCP mezzanine slot per node (1) 1 GbE Dedicated management port per node	(1) PCIe Gen3 x8 OCP mezzanine slot -
Expansion Slot	(1) PCIe Gen3 x8 LP MD-2 per node (1) PCIe Gen3 x8 internal SAS mezzanine option per node	(1) PCIe Gen3 x8 OCP mezzanine Slot (2) PCIe Gen3 x8 LP MD-2	- (8) PCIe Gen3 x4 miniSAS HD ports for NVMe
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 MHz DDR4 SODIMM
Drive Bay	(28) 3.5" hot-plug SAS HDD (4) 2.5" hot-plug NVMe SSD
Network Controller	Option 1: (2) 10GbE SFP+ Option 2: (1) 40GbE QSFP+
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

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 SATA/SAS HDD/SSD	(30) 3.5" and 2.5" SATA/SAS hot-plug HDD
Management Port	(1) OCP debug management port	(1) OCP debug management port
Fan	(6) hot-plug dual rotor fan modules per system	(6) hot-plug 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 T7064-IX4	QuantaMesh T7032-IX7	QuantaMesh T7032-IX1/IX1B
Physical Ports			
Port Configuration	64 QSFP28 ports	32 QSFP28 ports	32 QSFP28 ports
Management Port	OOB port (10/100/1000BASE-T)	OOB port (10/100/1000BASE-T)	OOB port (10/100/1000BASE-T)
Console Port	1 (RJ-45)	1 (RJ-45)	1 (RJ-45)
USB	1 (Type A)	1 (Type A)	1 (Type A)
Performance			
Switching Capacity	12.8Tbps	6.4Tbps	6.4Tbps
Maximum Forwarding Rate	4.2Bpps	2Bpps	3.3Bpps
Latency	419ns	Ultra-low Latency	450ns
MAC	Up to 264K*	Up to 288K*	Up to 136K*
CPU	Intel® Xeon® Processor D1527	Intel Atom® Processor C2558	Intel Atom® Processor C2558
Memory	4GB DDR3/ECC	8G DDR3/ECC	8GB DDR3/ECC
Flash	-	-	-
Storage	128G SSD	32G SSD	32GB SSD
BMC	AST2520	AST2520	AST2520 (Available in IX1B)
High Availability	Redundant Power Supply: 1+1 Hot-Swappable Fan Tray: N+1	Redundant Power Supply: 1+1 Hot-Swappable Fan Tray: N+2	Redundant Power Supply: 1+1 Hot-Swappable Fan Tray: N+1

T7000 Series models can perform line rate performance when packet size is greater than 250B.

* Support Unified Forwarding Table (UFT) for flexible allocation of L2 MAC, L3 host and LPM entry.





QuantaMesh T5032-LY6			QuantaMesh T4048-IX8		QuantaMesh T4048-IX3	
Physical Ports						
Port Configuration:	32 QSFP+ ports		48 SFP28 ports 8 QSFP28 ports		48 SFP28 ports 6 QSFP28 ports	
Management Port:	OOB port (10/100/1000BASE-T)		OOB port (10/100/1000BASE-T)		OOB port (10/100/1000BASE-T)	
Console Port:	1 (RJ-45)		1 (RJ-45)		1 (RJ-45)	
USB:	1 (Type A)		1 (Type A)		1 (Type A)	
Performance						
Switching Capacity:	2.56Tbps		4.0Tbps		3.6Tbps	
Maximum Forwarding Rate:	1904Mpps		2Bpps		2.6Bpps	
Latency:	<600ns		Ultra-low Latency		450ns	
MAC:	Up to 288K*		Up to 288K*		Up to 136K*	
CPU:	NXP PPC P2020	Intel Atom® Processor C2558	Intel Atom® Processor C2558		Intel® Xeon® Processor D1527	
Memory:	2GB DDR3/ECC	4GB DDR3/ECC	8GB DDR3/ECC		4GB DDR3/ECC	
Flash:	128MB	-	-		-	
Storage:	8GB microSD	32GB SSD	32GB SSD		128G SSD	
BMC:	-		AST2520		AST2520	
High Availability	Redundant Power Supply: 1+1 Hot-Swappable Fan Tray: N+1		Redundant Power Supply: 1+1 Hot-Swappable Fan Tray: N+2		Redundant Power Supply: 1+1 Hot-Swappable Fan Tray: N+2	

* Support Unified Forwarding Table (UFT) for flexible allocation of L2 MAC, L3 host and LPM entry.



QuantaMesh T3048-LY7		QuantaMesh T3048-LY8		QuantaMesh T3048-LY9A
Physical Ports				
Port Configuration	48 SFP+ ports 4 QSFP28 Ports	48 SFP+ ports 6 QSFP+ ports		48 10GBT 6 QSFP+ ports
Management Port	OOB port (10/100/1000BASE-T)	OOB port (10/100/1000BASE-T)		OOB port (10/100/1000BASE-T)
Console Port	1 (RJ-45)	1 (RJ-45)		1 (RJ-45)
USB	1 (Type A)	1 (Type A)		1 (Type A)
Performance				
Switching Capacity	1.76Tbps	1.44Tbps		1440Gbps
Maximum Forwarding Rate	Line-rate performance	1071Mpps		1071Mpps
Latency	Ultra-low latency	<600ns		<3us
MAC	Up to 272K*	Up to 288K*		Up to 288K*
CPU	Intel Atom® Processor C2338	NXP PPC P2020	Intel Atom® Processor C2558	NXP PPC P2020
Memory	8GB DDR3/ECC	2GB DDR3/ECC	4GB DDR3/ECC	2GB DDR3/ECC
Flash	-	128MB	-	128MB
Storage	32GB SSD	8GB microSD	32GB SSD	8GB microSD
High Availability	Redundant Power Supply: 1+1 Hot-Swappable Fan Tray: N+1	Redundant Power Supply: 1+1 Hot-Swappable Fan Tray: N+1		Redundant Power Supply: 1+1 Hot-Swappable Fan Tray: N+1

T3048-LY7 can perform line rate performance when packet size is greater than 427B.

* Support Unified Forwarding Table (UFT) for flexible allocation of L2 MAC, L3 host and LPM entry.



QuantaMesh T3048-LY9			QuantaMesh T3048-LY2R	QuantaMesh T3024-P05
Physical Ports				
Port Configuration	48 10GBT 6 QSFP+ ports		48 SFP+ ports 4 QSFP+ ports	24 SFP+ ports 2 QSFP+ ports
Management Port	OOB port (10/100/1000BASE-T)		OOB port (10/100/1000BASE-T)	OOB port (10/100/1000BASE-T)
Console Port	1 (RJ-45)		1 (RJ-45)	1 (Mini USB)
USB	1 (Type A)		1 (Type A)	1 (Type A)
Performance				
Switching Capacity	1440Gbps		1.28Tbps	640Gbps
Maximum Forwarding Rate	1071Mpps		952Mpps	476Mpps
Latency	<3us		<1us	<1us
MAC	Up to 288K*		128K	128K
CPU	NXP PPC P2020	Intel Atom® Processor C2558	NXP PPC P2020	NXP PPC P2020
Memory	2GB DDR3/ECC	4GB DDR3/ECC	2GB DDR3	2GB DDR3/ECC
Flash	128MB	-	128MB	128MB
Storage	8GB microSD	32GB SSD	8GB microSD	8GB microSD
High Availability	Redundant Power Supply: 1+1 Hot-Swappable Fan Tray: N+1		Redundant Power Supply: 1+1 Hot-Swappable Fan Tray: N+1	Redundant Power Supply: 1+1 Hot-Swappable Fan Tray: N+1

* Support Unified Forwarding Table (UFT) for flexible allocation of L2 MAC, L3 host and LPM entry.



QuantaMesh T3040-LY3		QuantaMesh T1048-LB9	QuantaMesh T1048-LY4R
Physical Ports			
Port Configuration	40 10GBT 8 SFP+ ports	48 1000BASE-T 4 SFP+ ports	48 1000BASE-T 4 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	1 (RJ-45)	1 (RJ-45)	1 (RJ-45)
USB	1 (Type A)	1 (Type A)	1 (Type A)
Performance			
Switching Capacity	960Gbps	176Gbps	176Gbps
Maximum Forwarding Rate	714Mpps	131Mpps	131Mpps
Latency	<3us	~3us	-
MAC	128K	32K	16K
CPU	NXP PPC P2020	NXP PPC MPC8541	Intel Atom® Processor C2338
Memory	2GB DDR3	1GB DDR3	8GB DDR/ECC
Flash	64MB	64MB	-
Storage	2GB microSD	2GB CF	8GB microSD
BMC	-	-	AST2520
High Availability	Redundant Power Supply: 1+1	Redundant Power Supply: 1+1	Redundant Power Supply: 1+1





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