



intel®

QCT Product Portfolio

5G

AI

cloud



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Leading Technologies for the Data-centric Era

Quanta Cloud Technology (QCT) has a significant market presence and offers a full spectrum of data center products that include servers, storage, network switches, and rack systems. QCT also has a wide array of hyper-converged and software-defined data center solutions to fit a full range of computing workloads for the data-centric era. We provide customers not only with early access to the latest innovations for faster time-to-market through our partnerships with leading technology partners (i.e. Microsoft, Red Hat, VMware, etc.), but also complete access to our own ecosystem of products which are designed and developed all under one roof.

Company Profile

QCT is Quanta Computer's cloud computing division and a global data center solution provider. We have been an enabler and a disruptor in the market, understanding how important it is to help businesses solve next generation data center design and operational challenges for 5G, AI, and Clouds. From fulfilling unique data center requirements to streamlining the digital transformation journey, QCT has proven its ability to provide end-to-end solutions to global data centers and clouds from a single node to an entire rack.

Quanta has been recognized as one of the Clarivate Top 100 Global Innovators. Clarivate Analytics is a Philadelphia-based global information solutions provider whose focus is on intellectual property and the sciences. Quanta and QCT's commitment to innovation has resulted in hundreds of patents filed in cloud computing since 2014. Quanta's patent success rate and global reach were identified as outstanding, marking the recognition in consecutive years since 2018. Quanta has also been named among Fortune Magazine's World's Most Admired Companies 2021.

THE WORLD'S MOST ADMIRABLE COMPANIES



TOP 100
GLOBAL
INNOVATOR



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 (Düren); one in Korea (Seoul); one in Japan (Tokyo); and one in Singapore.

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.

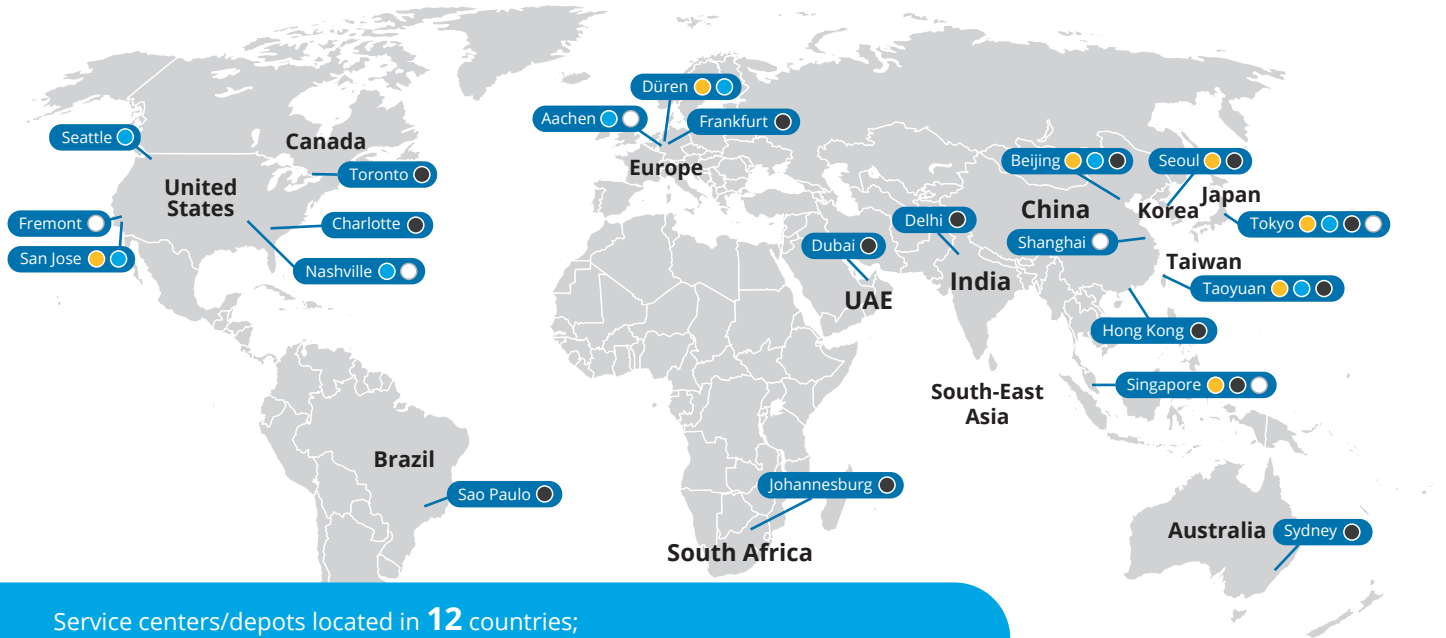
Employees

QCT has employees worldwide, including engineers, architects, sales & marketing, business development, and service personnel.

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



Service centers/depots located in **12** countries; on-site service availability covers over **150** countries through partnerships.

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

- 3 Years Warranty Coverage on All QCT HW
- 5 x 9 Help Desk Support
- Component Replacement
- QCT Online Service Portal for Support & RMA Services

Premium Service

- Advance Replacement Service
- Seedstock (Spare Depot) Service
- Drive Retention Service
- On-Site Support Service

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

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

QCT Systems

QuantaGrid



1U



QuantaGrid **S55R-1U**
Ultimate Compute Architecture for Performance and Efficiency

P 8



QuantaGrid **D55X-1U**
Versatile Server for Every Workload, Tailored for Diverse Applications

P 8



QuantaGrid **D54X-1U**
Ultimate Compute Performance and Security Architecture

P 9



QuantaGrid **S54S-1U**
High-density and Powerful Storage

P 10



QuantaGrid **D53X-1U**
Balanced architecture with built-in acceleration and advanced security

P 10

2U



QuantaGrid **D55Q-2U**
Power, flexibility, and performance all in one robust 2U server for diverse workloads

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QuantaGrid **D54Q-2U**
Scale Ahead for the Workload of Tomorrow

P 10



QuantaGrid **D53Q-2U**
Scale Ahead for the Workload of Tomorrow

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3U



QuantaGrid **D54U-3U**
Optimizing AI/ High-performance Computing

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5U



QuantaGrid **D75L-5U**
Supercharged AI Training Performance with Liquid Cooling

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7U



QuantaGrid **D75H-7U**
Unleashing Next-Level AI Performance

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QuantaGrid **D74F-7U**
Built for HPC and Advanced AI Workloads

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QuantaGrid **D74H-7U**
Accelerated Performance for the Most Extreme AI & HPC Workloads

P 10

9U



QuantaGrid **D75F-9U**
Supercharged AI Training Performance

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QuantaPlex

2U



QuantaPlex **S45Z-2U/S25Z-2U**
Ample performance
multi-node server

P 11



QuantaPlex **T43Z-2U**
16x DIMM per node, All NVMe

P 12

5U



QuantaPlex **S24P-5U**
Storage Pioneer for Data Center
Workloads

P 11

QuantaEdge



QuantaEdge **EGX77B-1U**
Carrier-Grade Multi-Access
Computing (MEC) Server

P 15



QuantaEdge **EGX77I-1U2N**
1U2N Carrier-Grade Multi-Access
Edge Computing (MEC) Server

P 15



QuantaEdge **EGX74I-1U**
Carrier-Grade Multi-Access
Edge Computing (MEC) Server

P 15



QuantaEdge **EGX66Y-2U**
Carrier-Grade Multi-Access
Edge Computing (MEC) Server

P 15



QuantaEdge **EGX63IS-1U**
Carrier-Grade Multi-Access Edge
Computing (MEC) Server

P 16



QuantaEdge **EGD33B-WT**
Bookshelf Pole Mount/ Wall Mount
IP67 / NEBS GR3108 Class 4 Fanless
Outdoor DU/MEC Server

P 16



QuantaEdge **EGT23D-DT**
Software-Defined Customer
Premises Equipment

P 16



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Networking





QCT Server Product Lines Support Intel® Xeon® 6 Processors



Unleash The Performance for Today's Acceleration and AI Needs

QCT's latest generation of server systems powered by Intel® Xeon® 6 processors enable significant upgrades over the previous generation to increase performance utilizing PCIe 5.0, DDR5 memory, Compute Express Link™ (CXL). Experience the power of innovation today!

With more compute and faster memory at the same power envelope as the previous generation, these processors are built to support your organization's evolving needs. Intel® Xeon® 6 provides you with a single platform with processors that range from high AI performance to exceptional efficiency and cloud scalability. Designed for better energy efficiency, QCT server systems equipped with Intel® Xeon® 6 processors and optimized for the most demanding AI, HPC, database and analytics, 5G, edge, networking, and infrastructure and storage workloads. At the same time, you'll get enhanced security features via Intel® Trusted Domain Extensions (Intel® TDX) and Intel® Software Guard Extensions (Intel® SGX) to safeguard your confidential critical data and to maximize your return on investment.

Intel Features

QCT systems powered by Intel® Xeon® 6 6700E-Series



Increased Performance
Up to 144 cores, PCIe 5.0, CXL 2.0



Increased Memory Bandwidth
1.14x DDR5 speed for HPC, AI & Data Analytics



Upgraded Security
• Intel® TDX for virtual machine isolation
• Intel® SGX
• Intel® Platform Firmware Resilience (Intel® PFR)



Higher Efficiency
• 2.5x Better rack density*
• 2.4x Performance per watt improvement**

QCT Features



Advanced air cooling with up to 330W TDP CPU



E3.S support to enable high-performance drives



Optimized for AI acceleration: Supports up to 3x single-width accelerators in 1U systems and up to 4x single-width, 3x dual-width accelerators in 2U systems



Enhanced serviceability with tool-less, hot-swappable designs (HDD, SSD, Fan, PSU, PCIe Riser Brackets)



OCP 3.0 and management module DC-SCM 2.0 support



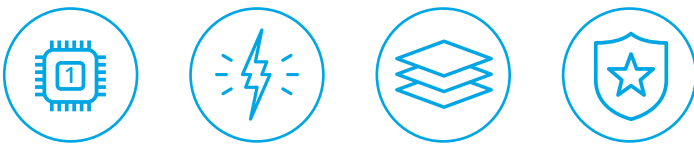
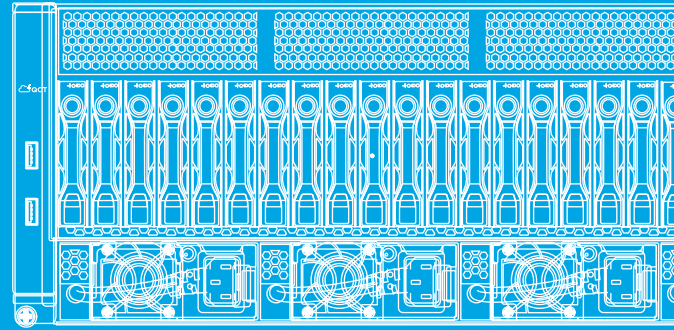
QCT system management tool: Orqestra

*2.5x better rack density at similar or higher performance per vCPU in comparison with 4th Gen Intel® Xeon® processors based on Intel architectural projections as of August 2023.

**2.4x performance per watt improvement in comparison with 4th Gen Intel® Xeon® processors based on Intel architectural projections as of August 2023.

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 **S55R-1U**

Ultimate Compute Architecture for Performance and Efficiency

QuantaGrid S55R-1U is a general-purpose rackmount server product designed with a balanced architecture utilizing a single socket and populated to support more network expansion with increased PCIe lanes. Powered by Intel® Xeon® 6 processors, it features 2 PCIe 5.0 slots and 1 OCP 3.0 NIC. Under this single processor design, the S55R-1U also features the capacity of 12 2.5" SATA/SAS/NVMe drives at the rear bay and 2 on board M.2 NVMe drives, which enables Intel VROC for RAID function. This platform targets data center customers with general purpose use needs for computing and storage.



1U	1	16

QuantaGrid **D55X-1U**

Versatile Server for Every Workload, Tailored for Diverse Applications

QuantaGrid D55X-1U is a general-purpose 1U rackmount server designed for diverse workloads. Powered by dual Intel® Xeon® 6 CPUs, it offers flexible storage options including SATA/SAS/NVMe 2.5" drives; E1.S and E3.S 1T for density; E3.S CXL SKU for memory-bound CXL 2.0 applications, catering to various needs. As for PCIe expansion, 400Gb networking, GPUs, and DPUs are supported. Flexible configurations ensure that it is an ideal tailored solution.

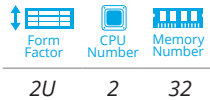


1U	2	32

QuantaGrid **D55Q-2U**

Power, flexibility, and performance all in one robust 2U server for diverse workloads

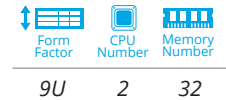
QuantaGrid D55Q-2U is a general-purpose 2U rackmount server designed for diverse workloads. Powered by dual Intel® Xeon® 6 processors, it supports 3.5" HDDs for cold-tier storage, SATA/SAS/NVMe 2.5" drives for higher-density storage, E3.S CXL SKU for memory-bound CXL 2.0 applications, fulfilling various storage/memory requirements. As for PCIe expansion, 400Gb networking and DPUs are all supported, depending on the customer's application needs. Additionally, up to (3) DW GPU or (4) SW GPU support facilitates inference tasks. All these features and more are packed into this powerful 2U server.



QuantaGrid **D75F-9U**

Supercharged AI Training Performance

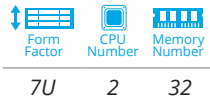
The QuantaGrid D75F-9U stands as an acceleration server meticulously engineered to confront the most intricate AI & HPC tasks. Fueled by 5th/4th Gen Intel® Xeon® processors and equipped with 32 DDR5 DIMM slots, the D75F-9U is equipped with 8 NVIDIA Blackwell GPUs interconnected with fifth-generation NVIDIA® NVLink®. This dynamic configuration empowers the QuantaGrid D75F-9U to effortlessly manage diverse workloads, including large language models, recommender systems, and chatbots, rendering it an optimal choice for businesses seeking to expedite their AI transformation.



QuantaGrid **D75H-7U**

Unleashing Next-Level AI Performance

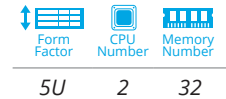
The QuantaGrid D75H-7U builds upon the robust foundation established by its predecessor, the QuantaGrid D74H-7U, to effectively address the most complex AI and HPC tasks. Powered by 5th/4th Gen Intel® Xeon® processors and featuring 32 DDR5 DIMM slots, the D75H-7U is further enhanced with 8 NVIDIA Blackwell or NVIDIA Hopper™ GPUs interconnected via NVIDIA® NVLink® and flexible I/Os to support NVIDIA BlueField®-3 SuperNICs and DPUs. This dynamic configuration empowers the QuantaGrid D75H-7U to seamlessly handle diverse workloads, making it the ideal solution for enterprises looking to accelerate their AI transformation.



QuantaGrid **D75L-5U**

Supercharged AI Training Performance with Liquid Cooling

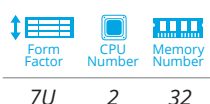
The QuantaGrid D75L-5U stands as an acceleration server meticulously engineered to confront the most intricate AI & HPC tasks. The D75L-5U is equipped with the NVIDIA HGX™ B200 8-GPU baseboard, in which the 8 GPUs are interconnected with fifth-generation NVIDIA® NVLink®. The system is powered by 5th/4th Gen Intel® Xeon® processors and equipped with 32 DDR5 DIMM slots. The structure empowers the QuantaGrid D75L-5U to fulfill diverse workloads, including large language models, recommender systems, and chatbots, rendering it an optimal choice for businesses seeking to expedite their AI transformation. Nevertheless, D75L-5U is supported by direct-to-chip liquid cooling to deliver better energy efficiency and optimize rack density.



QuantaGrid **D74F-7U**

Built for HPC and Advanced AI Workloads

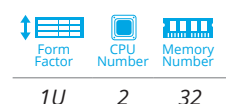
The QuantaGrid D74F-7U stands as an acceleration server meticulously engineered to confront the most intricate AI & HPC tasks. Fueled by 5th/4th Gen Intel® Xeon® processors and equipped with 32 DDR5 DIMM slots, the D74F-7U is equipped with 8 NVIDIA Hopper™ GPUs to significantly enhance time-to-insight. This dynamic configuration enables the QuantaGrid D74F-7U to drive the acceleration of generative AI and large language models (LLMs), while also advancing scientific computing for HPC workloads.



QuantaGrid **D54X-1U**

Ultimate Compute Performance and Security Architecture

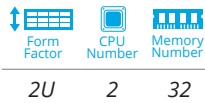
QuantaGrid D54X-1U is a general-purpose rackmount server designed for a balanced architecture with built-in acceleration and power efficiency. Powered by 5th/4th Gen Intel® Xeon® Scalable processors, it features up to 5 PCIe 5.0 expansion slots including 2 OCP 3.0 slots. As the 4th Gen of the QuantaGrid product lineup, the D54X-1U now offers All 12 2.5" NVMe flash or 16 E1.S NVMe flash drives, targeting HPC and enterprise workloads.



QuantaGrid **D54Q-2U**

Scale Ahead for the Workload of Tomorrow

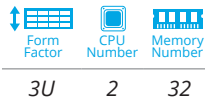
D54Q-2U is 2U general purpose server, powered by 5th/4th Gen Intel® Xeon® Scalable processors. The D54Q-2U provides ultimate resilience and scalability with flexible PCIe expansion slot options, all supporting PCIe 5.0. It is also thermally optimized for 2 dual-width accelerators and optimized for AI workloads. As the 4th Gen of the QuantaGrid product lineup, the D54Q-2U offers All 24 NVMe flash drives in U.2 or E1.S form factors as hot tier storage, targeting HPC and enterprise workloads.



QuantaGrid **D54U-3U**

Optimizing AI/High-performance Computing

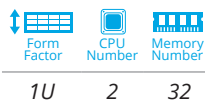
The QuantaGrid D54U-3U is an acceleration server designed for parallel computing. Supporting two 5th/4th Gen Intel® Xeon® Scalable processors up to 350W and 32 DIMM slots, this 3U system features 4 dual-width accelerator cards with NVIDIA® NVLink® bridge option or up to 8 single-width accelerator cards to provide a comprehensive and flexible architecture that can be optimized for various AI/HPC/DL applications.



QuantaGrid **D53X-1U**

Ultimate Compute Performance and Security Architecture

QuantaGrid D53X-1U is a general-purpose rackmount server featuring a balanced architecture with built-in acceleration and advanced security. It is 3rd Gen Intel® Xeon® Scalable processor Ice Lake empowered and features up to 5 PCIe 4.0 expansion slots.

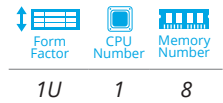


QuantaGrid **S54S-1U**

Storage Server

High-density and Powerful Storage

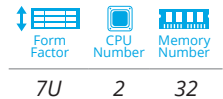
QuantaGrid S54S-1U is a high density 1U storage server with 12 HDDs and 4 NVMe SSDs. Equipped with 5th/4th Gen Intel® Xeon® Scalable processors and 8 DDR5 DIMM slots, this hybrid architecture enhances overall caching performance, making the S54S-1U the ideal platform for software-defined storage.



QuantaGrid **D74H-7U**

Accelerated Performance for the Most Extreme AI-HPC Workloads

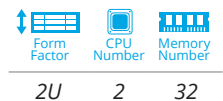
The QuantaGrid D74H-7U is an acceleration server purpose-built to tackle the most complex AI & HPC workloads. Powered by 5th/4th Gen Intel® Xeon® Scalable processors, 32 DDR5 DIMM slots, the D74H-7U NVIDIA HGX™ H100 provides nonblocking GPUDirect® RDMA and GPUDirect® Storage. This powerhouse is optimized to accelerate massive data sets, huge AI models, and supercomputing applications with optimized performance.



QuantaGrid **D53XQ-2U**

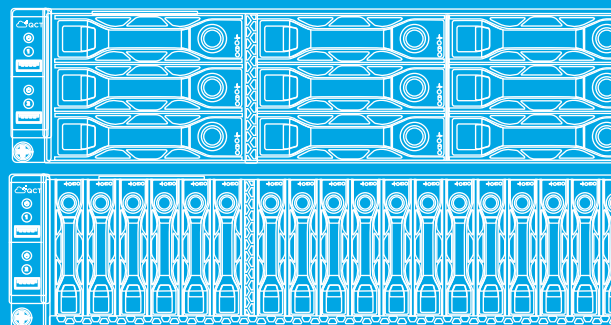
Scale Ahead for the Workload of Tomorrow

D53XQ-2U features ultimate resilience and scalability with flexible PCIe expansions: support rear NVMe as booting device with VMD RAID1, or high speed NIC with optional HHHL slots, along with 2x dual-width accelerators, optimized for AI workloads. As the 3rd gen of the product lineup, D53XQ-2U now offers All 24x NVMe flash drives as hot tier storage, targeting HPC and enterprise workloads.



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 **S45Z-2U/S25Z-2U**

Ample performance multi-node server

QuantaPlex S45Z-2U and QuantaPlex S25Z-2U are ultra-dense servers equipped with four or two independent nodes. They increase flexibility to set up different workloads independently in one 2U shared infrastructure, providing optimal data center performance per dollar.



Form Factor	CPU Number	Memory Number
2U4N	1	16
2U2N	per node	per node

QuantaPlex **S24P-5U**

Storage Server

Storage Pioneer for Data Center Workload

The QuantaPlex S24P-5U is an ultra-dense storage server powered by 5th/4th Gen Intel® Xeon® Scalable processors. It has 84/96 HDD bays which adhere to the latest RVI-optimized designs to support future HDDs. Built with SAS4 bandwidth to eliminate bottlenecks between storage card and expander, it also comes with flexible options for either 1 or 2 server nodes to meet different workload needs. This is an ideal option for both Software-Defined Storage (SDS) and warm and cold data storage.



Form Factor	CPU Number	Memory Number
5U	1	8
	per node	per node

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

QuantaPlex **T43Z-2U**

High Performance Multi-node Server

The QuantaPlex T43Z-2U is a high-performance server optimized for compute density. Supporting the latest Intel® Xeon® 3rd Gen Scalable processor family, with 16 primary DIMM slots, PCIe 4.0 high-speed networking and NVMe support, this powerful, compact server is ideal for HPC, HCI and cloud computing workloads.

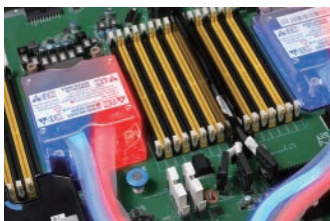
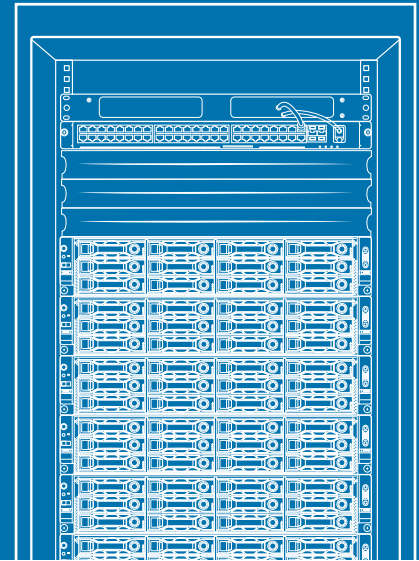


Form Factor	CPU Number	Memory Number
2U4N	2 <i>per node</i>	16 <i>per node</i>

QoolRack Series

Ultimate Thermal Efficiency with Optimized Power Savings

With the escalating demand for high-performance computing capabilities, it is essential to deploy energy-saving technologies to remain sustainable. QCT QoolRack offers a flexible and scalable thermal optimized solution for higher power CPUs that require cooler system demands. The solution significantly reduces power usage efficiency to lower the overall PUE and decrease operating expenses (OPEX) to bring down total cost of ownership (TCO) over a system's lifecycle when compared to traditional air-cooled infrastructures.



Cold Plate Modules

- Heat from the CPU will be removed by coolant through each cold plate module.
- More heat can be dissipated in a limited space.



Liquid to Air

- L11 flexible deployment with no additional data center infrastructure required.
- Carries heat out with a rear door heat exchanger (RDHX).

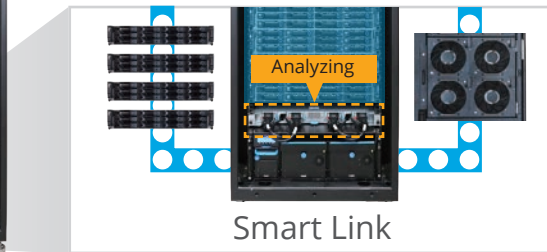
QCT's liquid cooling solutions lead the way to a cleaner and greener data center that minimizes its environmental impact by providing maximum energy savings and bringing sustainable and environmentally friendly innovations to mother earth.



Front

QoolRack Integrated Solution

- At the bottom of the QoolRack Integrated Solution is a coolant distribution unit (CDU), which has two pumps and one filter to push and filter coolant to the cold plate modules.
- The DC-SCM on each node's Smart Link automatically adjusts the RDHX's fan speeds through fan zoning for enhanced power savings.



Smart Link



Front

QoolRack Stand-alone Solution

- Optimized heat dissipation design to support more servers.
- Achieve better power efficiency compared to traditional air-cooled racks.
- Improves sustainability and reduces the carbon footprint of data centers.

Coming soon

Hot Swappable Capabilities on Critical Components

QCT QoolRack supports hot swap features to provide optimal user experiences and to avoid rack and system downtime.

CDU Pump Module



Pump Filter Module



PSU Module



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

Orqestra

Orchestrate your Data Center from a Single Pane of Glass

Orqestra is a light-weight data center management tool that uses the latest Redfish API, an open and secure industry standard, to help administrators manage their data centers collectively. Orqestra comes with an intuitive graphic user interface, so administrators can monitor, control and orchestrate their QCT hardware devices remotely from a single pane of glass.

Hyperscale Monitoring with Intuitive GUI

Orqestra offers resource and firmware monitoring, data center power consumption, and the latest critical events, all in a single dashboard.

With this real-time information, administrators can conduct holistic assessment as well as spotlight areas of concern.

Remote Batch Firmware Management

Remote functions allow users to conduct firmware compliance checks on a batch of devices, and easily update two or more firmware packages at the same time with official or custom QCT Update Bundles (QUB). Scheduling of required actions or routine actions can also be set up.

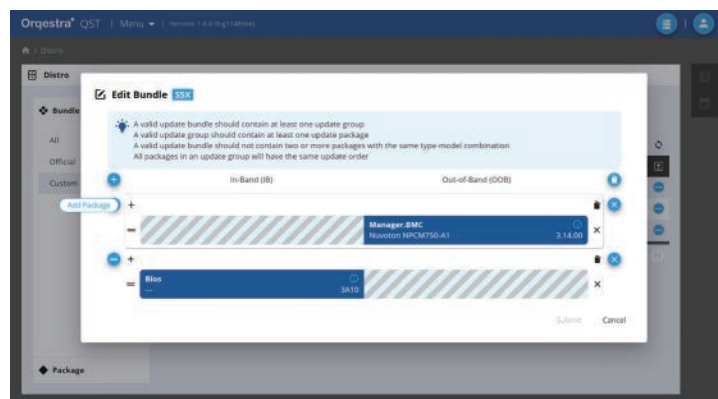
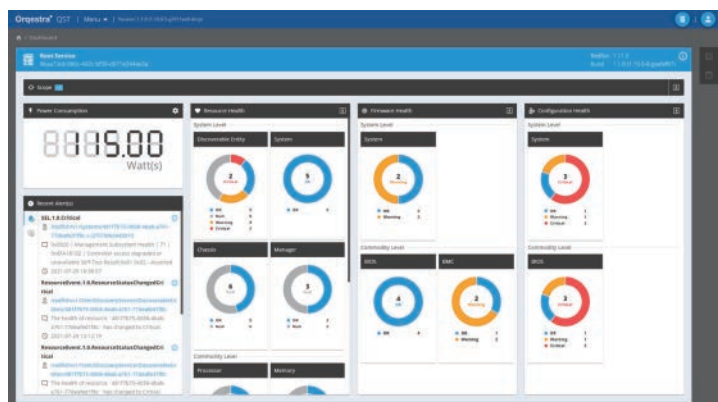
Customizable Event Subscription

Customizable real-time alerts based on event type, severity, or source allow users to quickly resolve issues before they result in more serious problems like server downtime.

Different users managing the same account can subscribe to the event types related to their team function roles, so that only selected events are sent to specified event receivers.

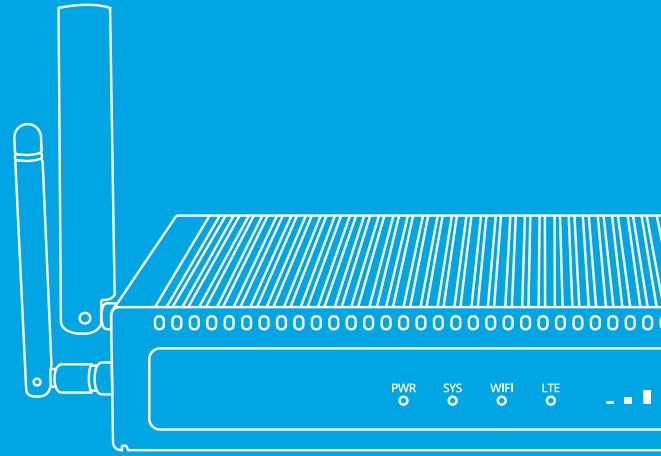
Supported Models

3rd Gen and 4th Gen Intel® Xeon® Scalable processor platforms.



QuantaEdge Series

QCT QuantaEdge series offers a dynamic edge server spectrum from on-premise edge to regional edge and from Open RAN based Telco infra to enterprise private network. QCT COTS servers feature high flexibility, expandability, minimized power consumption and a small hardware footprint, tailor-made for network function disaggregation and virtualization to realize zero touch provisioning.



QuantaEdge **EGX77B-1U** Edge Server

Carrier-Grade Multi-Access Edge Computing (MEC) Server

QuantaEdge EGX77B-1U is a 300mm extremely short depth edge server that features wide operation temperature and up to 12 LOM for advanced networking. Powered by 5th/4th Gen Intel® Xeon® Scalable processors, this model delivers enhanced performance with a built-in FEC and SyncE on board.




	 Form Factor	 CPU Number	 Memory Number
	1U	1	8

QuantaEdge **EGX771-1U2N** Edge Server

1U2N Carrier-Grade Multi-Access Edge Computing (MEC) Server

QuantaEdge EGX771-1U2N is our first multi-node short depth MEC server powered by 5th/4th Gen Intel® Xeon® Scalable processors. Featuring high density, flexibility, and a chip down design, it provides optimal computing performance and cost efficiency. With a design driven by ORAN and TIP standards, the EGX771-1U2N is NEBS GR63 Level 3 and GR3108 Class 2 compliant to support diverse 5G services.



	 Form Factor	 CPU Number	 Memory Number
	1U	1 <i>per node</i>	8 <i>per node</i>

QuantaEdge **EGX74I-1U** Edge Server

Carrier-Grade Multi-Access Edge Computing (MEC) Server

EGX74I-1U is a 5th/4th Gen Intel® Xeon® Scalable processor Single Socket short depth MEC server. High-Performance, I/O expandability and power efficiency provides best-in-class open platform for 5G Open RAN, private 5G networks, and a broad range of 5G MEC applications. EGX74I-1U design is driven by ORAN and TIP, also meets NEBS GR63 Level 3 and GR3108 Class 2 compliant for 5G services.



	 Form Factor	 CPU Number	 Memory Number
	1U	1	8

QuantaEdge **EGX66Y-2U** Edge Server

Carrier-Grade Multi-Access Edge Computing (MEC) Server

EGX66Y-2U is a 3rd Gen Intel® Xeon® Scalable processor Dual Socket based short depth MEC server, supporting 2 x dual width GPU. High-Performance, I/O expandability and power efficiency provides best-in-class open platform for 5G Open RAN, private 5G networks, and a broad range of 5G MEC applications. EGX66Y-2U design is driven by ORAN and TIP, also meets NEBS level 3 and Earthquake zone 4.



	 Form Factor	 CPU Number	 Memory Number
	2U	2	16

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

QuantaEdge **EGX63IS-1U** Edge Server

Carrier-Grade Multi-Access Edge Computing (MEC) Server

EGX63IS-1U is a 3rd Gen Intel® Xeon® Scalable processor Single Socket short depth MEC server. High-Performance, I/O expandability and power efficiency provides best-in-class open platform for 5G Open RAN, private 5G networks, and a broad range of 5G MEC applications. EGX63IS-1U design is driven by ORAN and TIP, also meets NEBS level 3 and Earthquake zone 4.



Form Factor	CPU Number	Memory Number
1U	1	8

QuantaEdge **EGD33B-WT** Edge Server

Bookshelf Pole Mount / Wall Mount NEBS GR3108 Class 4 Fanless Outdoor DU/MEC Server

EGD33B-WT is a fanless IP67 outdoor server based on Intel® Xeon® D-2700 processors, featuring performance in a small profile to drive 5G base stations and AI edge computing applications, with integrated Ethernet and high-capacity I/O optimized. Its bookshelf design can support up to 6 DUs on a single pole. EGD33B-WT is designed to overcome extreme thermal fluctuations, high humidity, and other demanding environmental factors. It is also NEBS GR3108 Class 4 compliant with a greater operating temp threshold from -40 °C to +55 °C with a solar load.



Form Factor	CPU Number
Pole Mount	1

QuantaEdge **EGT23D-DT** uCPE

Software-Defined Customer Premises Equipment

EGT23D-DT is an Intel® Atom® based universal customer premises equipment (uCPE) which turns traditional networking hardware appliances into software-defined appliances and extends the virtualization from cloud to enterprise edge. The EGT23D-DT offers rich WAN connectivity options including 4G LTE, 5G, Wi-Fi 5 and Wi-Fi 6.



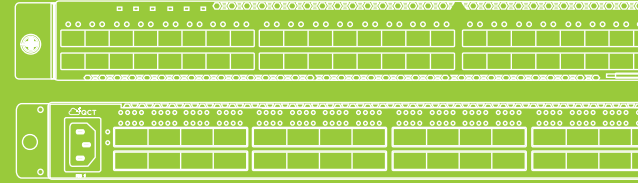
Form Factor	CPU Number	Memory Number
Desktop	1	1

QuantaMesh Series

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

The use of high-speed Ethernet switches in data centers has evolved from 10G/40G to 25/50/100/200/400G speeds to accommodate high-efficiency demands and to support the high-scale scope of modern data centers.

The QCT QuantaMesh product lines of Ethernet and Bare Metal Switches (BMS) features low latency, low power consumption, high density, and high-port count characteristics as well as redundant power supplies and hot-pluggable fan designs to provide the market with the very best data center network solutions.



QuantaMesh BMS **T7040-IXAE**

40-port 100GbE QSFP28



Networking Router for Carrier Networks and Service Providers

onie



- X86 CPU Board
- ONIE Pre-loaded
- ArcOS® Ready

QuantaMesh BMS **T7080-IXA**

80-port 100GbE QSFP28



Networking Router for Carrier Networks and Service Providers

onie



- X86 CPU Board
- ONIE Pre-loaded
- ArcOS® Ready

QuantaMesh BMS **T4048-IX8A**

48-port 25GbE SFP28 & 8-port 100GbE QSFP28



The Next Wave Enterprise Data Center 25GbE Switch

onie



- X86 CPU Board
- ONIE Pre-loaded
- ArcOS® Ready

QuantaMesh BMS **T4048-IX8A_BDE**

48-port 25GbE SFP28 & 8-port 100GbE QSFP28



The Next Wave Enterprise Data Center 25GbE Switch

onie



- x86 CPU Board
- ONIE Pre-loaded
- ONL Ready

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

QuantaMesh BMS **T9043-IX9**

32-port 400GbE QSFP56-DD



The 400GbE Spine Switch for Data Center and Cloud Computing

onie



- X86 CPU Board
- ONIE Pre-loaded
- ArcOS® Ready
- SONiC Ready

ARRCUS NETWORK DIFFERENT



QuantaMesh BMS **T4048-IX8**

48-port 25GbE SFP28 & 8-port 100GbE QSFP28



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

onie



CUMULUS



- X86 CPU Board
- ONIE Pre-loaded
- Cumulus Linux Ready
- ONL Ready
- ArcOS® Ready
- SONiC Ready

ARRCUS NETWORK DIFFERENT



QuantaMesh BMS **T7032-IX7**

32-port 100GbE QSFP28



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

onie



CUMULUS



- X86 CPU Board
- ONIE Pre-loaded
- Cumulus Linux Ready
- ONL Ready
- ArcOS® Ready
- SONiC Ready

ARRCUS NETWORK DIFFERENT



QuantaMesh BMS **T7032-IX7_BDE**

32-port 100GbE QSFP28



The Next Wave Enterprise Data Center 100GbE Switch

onie



- X86 CPU Board
- ONIE Pre-loaded
- ONL Ready

ARRCUS NETWORK DIFFERENT

QuantaMesh **T1048-LB9M**

48-port 100BASE-T & 4-port 25GbE SFP28

The Next Generation Data Center Management Switch



onie



- Layer3 Management Switch
- Hot Swappable Redundant Power Supply
- 25G Uplink Port for Non-blocking Architecture

QuantaMesh **T4048-IX8D**

48-port 25GbE SFP28 & 8-port 100GbE QSFP28



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



onie



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

QuantaMesh **T7032-IX7D**

32-port 100GbE QSFP28



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



onie



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

QuantaMesh **T1048-LY4R**

48-port 1000BASE-T & 4-port 10GbE SFP+



The Next Wave Data Center Rack Management Switch

CUMULUS 



onie



- ONIE Pre-load
- x86 CPU Design
- BMC Built-in
- IPMI Management Support
- Optical OOB Port Support

QCT Network Operating System (QNOS)

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 data center orientated features, 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 computing the need for data center network devices is growing exponentially, making network automation a critical factor. Supporting auto installation, Zero Touch Provision (ZTP), RESTful API, NETCONF/RESTCONF, and Ansible, QNOS facilitates easy deployment to build-up a mass data center with Infrastructure-as-a-Service (IaaS).



Virtualization

Virtualization technology has been booming up fast and widely required in data center for the Cloud computing and virtual machines (VMs) applications. To provide the scalability and stretched ability of L2 environment, QNOS supports Virtual eXtensible LAN (VXLAN) Switching/Routing running over the existing L3 network infrastructure. BGP-EVPN is also introduced in QNOS to support the VXLAN tunnel creation automatically and reduce network overhead by protocol-based MAC address and ARP learning.



High Availability

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

- Multi-chassis Link Aggregation (MLAG)
- Virtual Router Redundancy Protocol (VRRP) and Bidirectional Forwarding Detection (BFD)
- In-Service Software Upgrade (ISSU)
- Up to 48 paths ECMP routing for load balancing and redundancy
- Spanning Tree with Guarding Features



Data-Center Orientated

To build up a network infrastructure with a high bandwidth and low latency for network storage or high computing requirements, QNOS supports ROCEv1/v2, DCBX, and FIP SNP for the service differentiation to fulfill the needs of modern data center applications.

Best-In-Class Networking OS for Cloud

- In-Service Software Upgrade (ISSU)
- VxLAN Switching, BGP-EVPN Route Support, and VxLAN Routing
- Multi-Chassis Link Aggregation (MLAG)
- OSPF, BGP4 with ECMP
- Network Automation
- RoCEv1/v2, DCBX, and FIP SNP

Layer 2 Features

Switching Mode: Store-and-Forward

Spanning Tree:

- 802.1w
- 802.1s
- Auto Edge

VLAN :

- IEEE 802.1Q Tagged Base
- Port-Based
- QinQ (802.1ad)

802.3x Flow Control (Pause Frames)

Storm Control:

- Broadcast
- Unknown Multicast
- DLF (Unknown Unicast)

IGMP Snooping:

- v1/v2/v3
- v1/v2 Querier
- Immediate Leave

MLD Snooping v1/v2

Link Aggregation:

- Dynamic Load Balancing (DLB)
- 802.3ad with LACP (Resilient Hashing supported)
- Static Trunk
- Unicast/Multicast Traffic Balance over Trunking Port
- LACP Fallback

Link State Tracking

Port Backup

Loopback Detection

Private VLAN

Link Debounce

QoS Features

Scheduling for priority queue: WRR, Strict, Hybrid

COS: 802.1p, IP TOS precedence, DSCP

DiffServ

iSCSI optimization

Security Features

Static and dynamic port security (MAC-based)

802.1x (MD5, MS-CHAPv2):

- Port-based
- MAC-based
- Auto VLAN assignment
- Guest VLAN
- Unauthenticated VLAN

Access Control List: L2/L3/L4

IPv6 ACL: L3/L4

RADIUS/TACACS+: Authentication, Authorization, Accounting

SSH V2.0

User name and password:

- Local Authentication
- Remote Authentication via RADIUS/TACACS+, AAA

Management IP filtering:

- SNMP
- Telnet
- SSH

SSH Public key Authentication

IP Source Guard

Dynamic ARP inspection (DAI)

DHCP snooping: IPv4, IPv6

Control Plane Policing (CoPP)

Service Prohibit Access

Signed firmware image

Role Base Access Control (RBAC)

VxLAN with port-security

Diffie-Hellman 2048-Bit Key

Hardware Protocol Checker

L2 table update Notification

Port Blocking

Layer 3 Features

IPv4 unnumbered interfaces

IP Multinetting/CIDR

/31 subnets

Proxy ARP

Static route: IPv4, IPv6

OSPFv2/v3

ECMP

- Resilient Hashing supported for ECMP
- Dynamic Load Balancing (DLB)

BGP4

IGMP v1/v2/v3

PIM-SM/-SM6

SSM

MLD v1/v2

VRRPv2

Policy-Based Routing (PBR)

BFD

VRF Lite

Black Hole Detection (BHD)

VRRPv3

IP SLA

Management Features

IP helper

IPv4 Device Tracking

PTP TC 1-Step E2E (1588 1-Step end-to-end transparent clock)

Industrial command-line interface

CLI filtering

CLI scheduler

SSH

Software update: TFTP, SCP, SFTP

Configuration download/upload:

TFTP, SCP, SFTP

Dual Images

SNMP v1/v2c/v3

SNMP inform v2

RMON1 Groups: 1, 2, 3, & 9

BOOTP: client/relay

DHCP client

DHCP relay (VxLAN environment supported)

EVENT/Error log

DNS client

Remote PING

Traceroute

NTPv4

LLDP:

- 802.1ab
- Potential error detection

UDLD

Port mirroring: SPAN, RSPAN

sFlow v5

Email alerting: SMTP

Error-Disable Recovery

SNTP

IPv6 Management

IPv4/IPv6 Dual Protocol Stack

ICMPv6

ICMPv6 Redirect

IPv6 Neighbor Discovery

Stateless Autoconfiguration

Manual Configuration

DHCPv6 client/relay

SNMP over IPv6

SSH over IPv6

IPv6 DNS Resolver

IPv6 RADIUS

IPv6 TACACS+

IPv6 Syslog

IPv6 SNTP

High Availability

Multi-Chassis Link Aggregation (MLAG)

- IGMPv1/v2/v3 SNP and MLDv1/v2 SNP
- Standalone mode
- L2/L3 unicast
- RSTP/MSTP
- VXLAN

In-Service Software Upgrade (ISSU)

Data Center Features

PFC watchdog (DCBx supported)

Anycast gateways

Enhanced Transmission Selection (802.1Qaz)

Priority-based Flow Control (802.1Qbb)

- 802.1p

- IP-DSCP

DCBX: DCBX for ETS, DCBX for PFC, DCBX for Application Priority

FCoE Initiation Protocol (FIP) snooping

RoCEv1/v2

Automation

Zero Touch Provision (ZTP)

Auto Installation

RESTful API

Ansible

NETCONF/RESTCONF

MAC flapping Notification

Bus Monitor and Recovery

Two Way Active Measurement Protocol

VRRP aware PIMSM

Virtualization Features

VxLAN Switching/Routing

BGP-EVPN for VXLAN

- Ethernet autodiscovery Route (Type-1)
- MAC with IP advertisement Route (Type-2)
- inclusive multicast Ethernet tag Route (Type-3)
- Ethernet segment Route (Type-4)
- IP prefix Route (Type-5)

Multihoming Designated Forwarder election enhancement (RFC8584)

SDN

OpenFlow v1.3

Features	IX7D	IX8D	LB9M	LY4R	LB9	IX1	P05	LY2R	LY3	LY6/8/9
L2 Features										
MLAG enhancement for Multicast	20.12 ~	20.12 ~	No	No	No	Yes	No	No	No	No
IGMPv3 SNP with MLAG	20.12 ~	20.12 ~	No	No	No	Yes	No	No	No	No
IGMP SNP	Yes	Yes	19.06B01~	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Link State Tracking	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Port Backup	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Private VLAN	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Link Debounce	19.12 ~	19.12 ~	19.12 ~	No	No	Yes	No	No	No	No
Auto-Nego on 40G/100G	19.12 ~	19.12 ~	No	No	No	No	No	No	No	No
L3 Features										
Black Hole Detection (BHD)	19.06 ~	19.06 ~	No	No	No	Yes	No	No	No	No
IPv6 PBR	19.12 ~	19.12 ~	19.12 ~	No	No	Yes	No	No	No	No
IP SLA	19.12 ~	19.12 ~	19.12 ~	No	No	Yes	No	No	No	No
VRRP-BFD	19.12 ~	19.12 ~	No	No	No	Yes	No	No	No	No
QoS Features										
DSCP-based PFC	20.12 ~	20.12 ~	No	No	No	Yes	No	No	No	No
Dynamic Load Balancing (DLB)	20.12 ~	20.12 ~	No	No	No	No	No	No	No	No
iSCSI Optimization	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Layer 3 Features										
IGMPv1/v2/v3	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes
PIM-SM/SM6	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes
MLDv1/v2	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes
BFD	Yes	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes
VRF Lite	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
VRRPv3	Yes	Yes	No	No	No	Yes	No	No	No	Yes
Security Features										
VxLAN with port-security	22.06 ~	22.06 ~	No	No	No	Yes	No	No	No	No
Diffie-Hellman 2048-Bit Key	22.06 ~	22.06 ~	No	No	No	Yes	No	No	No	No
Hardware Protocol Checker	22.06 ~	22.06 ~	22.06 ~	No	No	No	No	No	No	No
L2 table update Notification	22.06 ~	22.06 ~	No	No	No	Yes	No	No	No	No
Port Blocking	22.06 ~	22.06 ~	22.06 ~	No	No	Yes	No	No	No	No
Management Features										
IPv4 Device Tracking	21.06 ~	21.06 ~	No	No	No	Yes	No	No	No	No
Zero Touch Provision (ZTP)	20.12 ~	20.12 ~	No	No	No	Yes	No	No	No	No
PTP TC 1-Step E2E (1588 1-Step end-to-end transparent clock)	20.12 ~	20.12 ~	No	No	No	No	No	No	No	No
Signed firmware image	20.06 ~	20.06 ~	20.06 ~	No	No	Yes	No	No	No	No
BHD with sFlow	20.06 ~	20.06 ~	No	No	No	Yes	No	No	No	No
QPOST	20.06 ~	20.06 ~	No	No	No	Yes	No	No	No	No
IPv4/v6 Sntp	No	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
NETCONF/RESTCONF w/ YANG	19.06 ~	19.06 ~	No	No	No	Yes	No	No	No	No
High Availability										
MLAG	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes
MLAG with MSTP and VXLAN	19.06 ~	19.06 ~	No	No	No	Yes	No	No	No	No
ISSU	19.06 ~	19.06 ~	No	No	No	Yes	No	No	No	No
Data Center Features										
PFC Watchdog	21.06 ~	21.06 ~	No	No	No	No	No	No	No	No
ETS	No	No	No	No	No	No	Yes	Yes	Yes	Yes
PFC (RoCEv1)	Yes	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes
DCBX	Yes	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes
FIP SNP	Yes	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes
DCBX App Priority Originator	19.12 ~	19.12 ~	No	No	No	Yes	No	No	No	No
ECN (RoCEv2)	19.12 ~	19.12 ~	No	No	No	Yes	No	No	No	No
Automation Features										
NETCONF/RESTCONF architecture enhancement	22.06 ~	22.06 ~	No	No	No	Yes	No	No	No	No
RESTful API of Fiber optics information/status	20.06 ~	20.06 ~	No	No	No	Yes	No	No	No	No
RESTful API of CoS	20.06 ~	20.06 ~	No	No	No	Yes	No	No	No	No
RESTful API of ACL	19.12 ~	19.12 ~	19.12 ~	No	No	Yes	No	No	No	No
RESTful API of IGMP SNP	19.12 ~	19.12 ~	19.12 ~	No	No	Yes	No	No	No	No
MAC flapping Notification	22.06 ~	22.06 ~	22.06 ~	No	No	Yes	Yes	Yes	Yes	Yes
Bus Monitor and Recovery	22.06 ~	22.06 ~	No	No	No	Yes	Yes	Yes	Yes	Yes
Two Way Active Measurement Protocol	22.06 ~	22.06 ~	22.06 ~	No	No	Yes	Yes	Yes	Yes	Yes
VRRP aware PIMSM	22.06 ~	22.06 ~	No	No	No	Yes	No	No	No	No
Virtualization Features										
BGP-EVPN support for VRF aware VXLAN Routing	20.12 ~	20.12 ~	No	No	No	Yes	No	No	No	No
MAC Mobility: MAC dumping	20.12 ~	20.12 ~	No	No	No	Yes	No	No	No	No
VRF aware VXLAN Routing	20.06 ~	20.06 ~	No	No	No	No	No	No	No	No
BGP-EVPN Multihoming	20.06 ~	20.06 ~	No	No	No	Yes	No	No	No	No
BGP-EVPN ARP Suppression	20.06 ~	20.06 ~	No	No	No	Yes	No	No	No	No
VXLAN Switching	Yes	Yes	No	No	No	Yes	No	No	No	Yes
BGP-EVPN support for VXLAN Switching/Routing	19.12 ~	19.12 ~	No	No	No	Yes	No	No	No	No
VRF unaware VXLAN Routing	19.12 ~	19.12 ~	No	No	No	No	No	No	No	No

* Do not support split horizon

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

- 10G Direct Attach Copper Cable** (SFP+ to SFP+)
- 25G Direct Attach Copper Cable** (SFP28 to SFP28)
- 40G Direct Attach Copper Cable** (QSFP+ to QSFP+)
- 40G Direct Attach Copper fan-out Cables** (QSFP+ to 4 SFP+)
- 100G Direct Attach Copper Cable** (QSFP28 to QSFP28)
- 100G Direct Attach Copper fan-out Cables** (QSFP28 to 4 SFP28)
- 400G Direct Attach Copper Cable** (QSFP-DD to QSFP-DD)
- 400G Direct Attach Copper fan-out Cables** (QSFP-DD+ to 4 QSFP28)
- 10G Active Optical Cable** (SFP+, 850nm, MMF)
- 25G Active Optical Cable** (SFP28, 850nm, MMF)
- 40G Active Optical Cable** (QSFP+, 850nm, MMF)
- 40G Active Optical fan-out Cable** (QSFP28 to 4 SFP+)
- 100G Active Optical Cable** (QSFP28, 850nm, MMF)
- 100G Active Optical fan-out Cable** (QSFP28 to 4 SFP28)
- 200G Direct Attach Copper Cable** (QSFP56 to QSFP56): 2m
- 200G Active Optical Cable** (QSFP56, 850nm, MMF):
1m, 3m, 5m, and 10m
- 400G Active Optical Cable** (QSFP-DD, 850nm, MMF)
- 400G Active Optical fan-out Cable** (QSFP-DD+ to 4 QSFP28)
- 400G Active Copper fan-out Cable** (QSFP-DD+ to 4 QSFP28)

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
- 25G Optic** (SFP28, LC, 1310nm, SMF): 25GBASE-LR
- 40G Optic** (QSFP+, MPO, 850nm, MMF): 40GBASE-SR4
- 40G Optic** (QSFP+, LC, 1310nm, SMF): 40GBASE-LR4
- 100G Optic** (QSFP28, MPO, 850nm, MMF): 100GBASE-SR4
- 100G Optic** (QSFP28, LC, 1310nm, SMF): 100GBASE-LR4
- 100G Optic** (QSFP28, LC, 1310nm, SMF): 100GBASE-DR1
- 100G Optic** (QSFP28, LC, 1310nm, SMF): 100GBASE-FR1
- 100G Optic** (QSFP28, LC, 1271~1331nm, SMF): 100GBASE-CWDM4
- 200G Optic** (QSFP56, MPO, 850nm, MMF): 200GBASE-SR4
- 200G Optic** (QSFP56, MPO, 1310nm, SMF): 200GBASE-DR4
- 200G Optic** (QSFP56, LC, 2km, SMF): 200GBASE-FR4
- 400G Optic** (QSFP-DD, MPO, 850nm, MMF): 400GBASE-SR8
- 400G Optic** (QSFP-DD LC, 1273.54~1309.14nm, SMF): 400GBASE-LR8
- 400G Optic** (QSFP-DD, MPO, 1310nm, SMF): 400GBASE-DR4
- 400G Optic** (QSFP-DD, LC, 1271~1331nm, SMF): 400GBASE-FR4



Cloud Infrastructure

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 VMware Edition- vSAN ReadyNode™

Flexible Virtualization Architecture to Fulfill
Your Workloads



- Reliability, efficiency, and manageability
- Pre-configured for quick VMware vSAN™ deployment
- Pre-validated hardware configuration

QxStack VMware Edition-VRN is a series of hyperconverged IaaS appliances with VMware vSAN ReadyNode™ Certification. Pre-validated to simplify complex implementation and management, QxStack VMware Edition-VRN also adopts the latest VMware vSAN technologies, such as vSAN OSA, vSAN ESA and vSAN Max, to help customers to boost utilization of compute and storage resources. Overall, the solution delivers simplicity, agility and manageability at a lower TCO for cloud building.



QCT VMware Tanzu Solution

Integrated Virtualization Environment to
Fit Today's Cloud-Native Technologies



- Compatible with legacy and modern applications
- Optimal infrastructure for enterprise Kubernetes processes
- Ready for VMware virtualized AI infrastructure

QCT VMware Tanzu comprises a series of infrastructure as a service (IaaS) appliances that support VMware vSphere with Tanzu, allowing users to adopt cloud native features to simplify and secure Kubernetes deployments at scale across clouds, whether it's a single team, a single cloud, or enterprise-wide operations in multiple clouds. It alleviates the heavy management load for DevOps teams and IT operators, further lowering TCO. It is also ready for Enterprise AI platforms, which provide streamlined management and orchestration to speed up AI infrastructure building.





QxVDI VMware Edition

A Selection of VDI Appliances Catering to Various Workload & Scenario Needs



- A pre-validated, reliable, turnkey VDI solution
- Different packages to fulfill diverse business demands
- Enhanced user experience

QCT's cutting-edge turnkey virtual desktop infrastructure (VDI) solution caters to the needs of various workloads and scenarios, spanning basic office tasks, entry-level graphics, to graphic-intensive applications and AI/ML tasks. Powered by a market-proven software — VMware Horizon® — this desktop virtualization solution is unique in its ease of implementation and management.



QxStack with Red Hat OpenStack Platform

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



- Ensure business continuity
- Achieve optimal network performance
- Accelerate faster time-to-value

QCT QxStack with Red Hat OpenStack Platform provides a comprehensive solution for cloud service providers, enterprises and Telecom operators. The platform is designed with high network bandwidth and capacity to meet demanding performance requirements. The stack adopts EPA designs and fully takes advantage of QCT NUMA-balanced systems to improve network performance.



QxStack with Cloud Native Platform

An agile, flexible, and high-throughput performance platform to accelerate network transformation



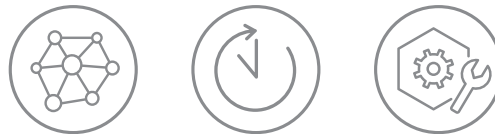
- Extraordinary network performance
- Outstanding extendibility and flexibility
- Optimized model and configuration

QxStack with Cloud-Native Platform is a Platform as a Service (PaaS) solution built on the Red Hat® OpenShift® Container Platform and strengthened by Intel Enhanced Platform Awareness (EPA) technology. The production-ready performance-optimized solution features a Hyper Converged Infrastructure (HCI) architecture that supports VMs and container coexistence and allows resource sharing.

Microsoft

QxStack Azure Stack HCI Solution

Certified Azure Stack HCI Solution



- Enable diverse use cases
- Deliver faster time-to-market
- Easy to deploy

QxStack Azure Stack HCI is a Microsoft certified HCI solution designed to deliver a seamless hybrid cloud experience. With various configurations, it is not only optimized for diverse business workloads and use cases, but also pre-configured and pre-validated to minimize your hardware-software integration effort and system implementation cost.

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

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

Optimal Integrated Ceph Solutions at Petabyte Scale



- Provide various workloads to meet diverse demand
- Exhibit industry-leading performance
- Accelerate 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.



Converged AI & HPC System

Building up a system to run both HPC & AI workloads from scratch is very challenging because the system design and system integration in this process is highly complex. QCT delivers the QCT Platform on Demand (QCT POD), a converged HPC and AI platform, with best-practice hardware and software integration to fulfill workload-optimized performance for HPC, AI and Data Analytics workloads.

ML
• Commons *thinkparQ*  ALTAIR

QCT Platform on Demand (QCT POD)

Realize Industrial Workloads with Converged
HPC & AI Infrastructures



- Best-practice HPC& AI converged platform for industrial workloads
- Streamlines management and deployment to accelerate time-to-value
- Provides a workload-driven design with flexible hardware and software integration

QCT Platform on Demand (QCT POD) provides best-fit building blocks for a converged HPC and AI system. It not only simplifies user' deployment journey, but also streamlines system management and monitoring. Moreover, with a comprehensive development environment, it can support both HPC and AI workloads in either a bare-metal or containerized environment, depending on users' requirement, to accelerate their time-to-value.

Process Automation Solution

QCT offers an end-to-end Robotic Process Automation (RPA) solution, providing a powerful, trustworthy infrastructure, and RPA software support from qualified process consultants and process automation developers, delivering an optimized, customizable RPA implementation service to fulfill all automation needs.

QCT RPA Solution

An End-to-end RPA Implementation Solution to Optimize and Automate Business Processes



- Saves human labor cost and time
- Conducts in-depth process reviews
- Improves process efficiency

QCT RPA Solution can help companies plan and start their automation journey. With rich experience in infrastructure, applications and process consulting, QCT can help companies build the digital workforce they need in a very short time, consolidating their business processes and steps into "AS-IS" and "To-Be" models to achieve real business process optimization, saving human labor and operational costs while boosting productivity.

Private 5G Network Solution

QCT offers OmniPOD, an end-to-end private 5G network solution comprised of a 5G core with a high-availability design, a 5G RAN with flexible system configurations, and an OAM system with visualized network management. The network system is 3GPP standard-compliant and Intel x86 processor-based. It supports both single-site and multi-site deployment depending on the user's scenario. Overall, OmniPOD equips enterprise users with a reliable, flexible, and user-friendly solution catering to diverse private 5G needs.

QCT OmniPOD Enterprise 5G Solution

A Turnkey Solution to Shape Diverse Future
5G User Scenarios



- Optimal enterprise-grade reliability
- Flexible uplink/downlink slot configuration
- Visualized OAM system to provide user-friendly network management

QCT OmniPOD is composed of OmniCore (5G Core), OmniRAN (5G RAN), and OmniView (OAM). Our end-to-end enterprise 5G solution leverages best-of-breed technologies to help you build a scalable, secure, and agile network tailored for different vertical markets.

Specifications

QuantaGrid Series



QuantaGrid S55R-1U	
Processor	(1) Intel® Xeon® 6 processor, up to TDP 350W
Memory	Up to 4TB memory capacity with (16) DDR5 RDIMM up to 6,400 MHz, (8) MCRDIMM up to 8,000 MHz
Storage	Front bay: (12) 2.5" SATA/SAS/NVMe drives
Network Controller	(1) 1GbE RJ45 dedicated management port (1) OCP 3.0 SFF slot
Expansion Slot	Option 1: (2) PCIe 5.0 x16 FHHL slots Option 2: (2) PCIe 5.0 x16 HHHL slots
Form Factor	1U Rackmount
Management Module	DC-SCM 2.0

QuantaGrid D55X-1U	
Processor	(2) Intel® Xeon® 6 processors, up to TDP 350W
Memory	Up to 8TB memory capacity with (32) DDR5 RDIMM up to 6,400 MHz, (16) MRDIMM up to 8,000 MHz
Storage	Option 1: (12) 2.5" hot-pluggable SATA/SAS/NVMe drives Option 2: (16) E1.5 hot-pluggable NVMe drives Option 3: (20) E3.S 1T hot-pluggable NVMe drives Option 4: (4) E3.S 1T hot-pluggable NVMe drives + (8) E3.S 2T CXL devices
Network Controller	(1) Dedicated 1GbE management port Support (2) OCP 3.0 SFF network cards
Expansion Slot	Option 1: (2) PCIe 5.0 x16 FHHL slots (2) PCIe 5.0 x16 OCP 3.0 SFF slots Option 2: (3) PCIe 5.0 x16 HHHL slots (2) PCIe 5.0 x16 OCP 3.0 SFF slots
Form Factor	1U Rackmount
Management Module	DC-SCM 2.0



QuantaGrid D55Q-2U	
Processor	(2) Intel® Xeon® 6 processors, up to TDP 350W
Memory	Up to 8TB memory capacity with (32) DDR5 RDIMM up to 6,400 MHz, (16) MRDIMM up to 8,000 MHz
Storage	Option 1: (12) 3.5" hot-pluggable SATA/SAS HDDs or (12) 2.5" hot-pluggable NVMe drives Option 2: (24) 2.5" hot-pluggable SATA/SAS/NVMe drives Option 3: (12) E3.S 1T hot-pluggable NVMe drives + (12) E3.S 2T CXL devices
Network Controller	(1) Dedicated 1GbE management port Support (2) OCP 3.0 SFF network cards
Expansion Slot	Upper Deck [General SKU]: (4) PCIe 5.0 x8 FHHL slots [SW GPU SKU]: (2) PCIe 5.0 x16 FHFL slots [DW GPU SKU]: (2) PCIe 5.0 x16 FHFL slots Lower Deck Option 1: (2) PCIe 5.0 x16 HHHL slots + (1) PCIe 5.0 x8 HHHL slot Option 2: (2) PCIe 5.0 x16 FHHL slots Option 3: (1) PCIe 5.0 x8 HHHL slot Option 4: (1) PCIe 5.0 x16 HHHL slot + (1) PCIe 5.0 x8 HHHL slot <i>*For PCIe expansion, consider storage options; contact QCT for further details.</i>
Form Factor	2U Rackmount
Management Module	DC-SCM 2.0



QuantaGrid D75F-9U

Processor	(2) 5th/4th Gen Intel® Xeon® processors, up to 350W
Chipset	Intel C741
Memory	Up to 8TB memory capacity with (32) DDR5 DIMM slots
Storage	(18) hot swappable 2.5" PCIe 5.0 NVMe SSDs (2) PCIe 3.0 x1/SATA M.2 2280/2230
Network Controller	Dedicated (1) GbE management port
Expansion Slot	MB Tray: (2) PCIe 5.0 x16 FHHL DW slots I/O Tray: (8) PCIe 5.0 x16 HHHL slots
GPU Expansion	NVIDIA HGX™ B200 8-GPU baseboard
Form Factor	9U Rackmount
Management Module	DC-SCM 1.0



QuantaGrid D75H-7U

Processor	(2) 5th/4th Gen Intel® Xeon® processors, up to 350W
Chipset	Intel C741
Memory	Up to 8TB memory capacity with (32) DDR5 DIMM slots
Storage	(18) hot swappable 2.5" PCIe 5.0 NVMe SSDs (2) PCIe 3.0 x1/SATA M.2 2280/2230
Network Controller	Dedicated (1) GbE management port
Expansion Slot	MB Tray: (2) PCIe 5.0 x16 FHHL DW slots I/O Tray: (8) PCIe 5.0 x16 HHHL slots
GPU Expansion	NVIDIA HGX™ H200 8-GPU or NVIDIA HGX™ B100 8-GPU baseboard
Form Factor	7U Rackmount
Management Module	DC-SCM 1.0



QuantaGrid D75L-5U

Processor	(2) 5th/4th Gen Intel® Xeon® processors, up to 350W
Chipset	Intel C741
Memory	Up to 8TB memory capacity with (32) DDR5 DIMM slots
Storage	(18) hot swappable 2.5" PCIe 5.0 NVMe SSDs (2) PCIe 3.0 x1/SATA M.2 2280/2230
Network Controller	Dedicated (1) GbE management port
Expansion Slot	MB Tray: (2) PCIe 5.0 x16 FHHL DW slots I/O Tray: (8) PCIe 5.0 x16 HHHL slots
GPU Expansion	NVIDIA HGX™ B200 8-GPU baseboard
Form Factor	5U Rackmount
Management Module	DC-SCM 1.0



QuantaGrid D74F-7U

Processor	(2) 5th/4th Gen Intel® Xeon® processors, up to 350W
Chipset	Intel C741
Memory	Up to 8TB memory capacity with (32) DDR5 DIMM slots
Storage	(18) hot swappable 2.5" PCIe 5.0 NVMe SSDs (2) PCIe 3.0 x1/SATA M.2 2280/2230
Network Controller	Dedicated (1) GbE management port
Expansion Slot	MB Tray: (1) PCIe 5.0 x16 OCP 3.0 slot + (1) PCIe 5.0 x16 FHHL I/O Tray: (10) PCIe 5.0 x16 OCP 3.0 slot
GPU Expansion	NVIDIA HGX™ H200 8-GPU baseboard
Form Factor	7U Rackmount
Management Module	DC-SCM 1.0



QuantaGrid D54X-1U		
SKU	2.5"	E1.S
Processor	(2) 5th/4th Gen Intel® Xeon® Scalable processors, up to 385W TDP	
Chipset	Intel® C741	
Memory	Up to 8TB memory capacity with (32) DDR5 DIMM slots	
Storage	Front (12) 2.5" hot-pluggable SATA/SAS/NVMe drives	Front (16) E1.S" hot-pluggable NVMe drives
Network Controller	(1) Dedicated 1GbE management port Optional (2) OCP 3.0 small form factor network cards	
Expansion Slot	Option 1 (2) PCIe 5.0 x16 FHHL slots (2) PCIe 5.0 x16 OCP3.0 slots	Option 2 (3) PCIe 5.0 x 16 HHHL slots (2) PCIe 5.0 x16 OCP3.0 slots
Form Factor	1U Rackmount	
Management Module	DC-SCM 1.0	



QuantaGrid D54Q-2U				
SKU	3.5" Tiered	2.5" Tiered	2.5" All U.2	2.5" All E1.S
Processor	(2) 5th/4th Gen Intel® Xeon® Scalable processors, up to 350W TDP			
Chipset	Intel® C741			
Memory	Up to 8TB memory capacity with (32) DDR5 DIMM slots			
Storage	Front (12) 3.5" hot-pluggable SATA/SAS drives including (8) hot-pluggable NVMe slots Optional Rear: (2) 2.5" hot-pluggable SATA/SAS/NVMe drives	Front (24) 2.5" hot-pluggable SATA/SAS drives including (8) hot-pluggable NVMe slots Optional Rear: (2) 2.5" hot-pluggable SATA/SAS/NVMe drives	Front (24) 2.5" hot-pluggable SATA/SAS/NVMe drives	Front (24) E1.S hot-pluggable NVMe drives
Network Controller	(1) Dedicated 1GbE management port Optional (2) OCP 3.0 small form factor network cards			
Expansion Slot	Option 1: (2) PCIe 5.0 x16 FHHL slots (4) PCIe 5.0 x8 FHHL slots Optional (2) PCIe 5.0 x16 HHHL slots Option 2: (2) PCIe 5.0 x16 FHFL slots (support DW GPU) (2) PCIe 5.0 x16 FHHL slots Optional (2) PCIe 5.0 x16 HHHL slots Option 3: (4) PCIe 5.0 x16 FHFL slots (support SW GPU) Optional (2) PCIe 5.0 x16 HHHL slots			
Form Factor	2U Rackmount			
Management Module	DC-SCM 1.0			



QuantaGrid S54S-1U		
SKU	SATA	SATA/SAS
Processor	(1) 5th/4th Gen Intel® Xeon® Scalable processor, up to 350W TDP	
Chipset	Intel® C741	
Memory	Up to 2TB memory capacity with (8) DDR5 DIMM slots	
Storage	(12) 3.5"/2.5" hot-pluggable SATA HDDs (from PCH) (4) 2.5" 7mm hot-pluggable NVMe drives	(12) 3.5"/2.5" hot-pluggable SATA/SAS HDDs (from HBA/Raid card) (4) 2.5" 7mm hot-pluggable NVMe drives
Network Controller	(1) Dedicated 1GbE management port	
Expansion Slot	(2) PCIe 5.0 x16 OCP 3.0 slots + (1) PCIe 5.0 x16 HHHL slot (1) PCIe 5.0 x16 HHHL slot (internal, for SAS HHHL card only)	
Form Factor	1U Rackmount	
Management Module	DC-SCM 1.0	



QuantaGrid D54U-3U	
Processor	(2) 5th/4th Gen Intel® Xeon® Scalable processors, up to 350W TDP
Chipset	Intel® C741
Memory	Up to 8TB memory capacity with (32) DDR5 DIMM slots
Storage	(10) 2.5" hot-pluggable SATA/SAS/NVMe drives
Network Controller	(1) Dedicated 1GbE management port
Expansion Slot	[Dual Width GPU Config] (4) PCIe 5.0 x16 FHFL slots (2) PCIe 5.0 x16 HHHL slots (1) PCIe 5.0 x16 OCP 3.0 TSFF/SFF slot (1) PCIe 5.0 x8 HHHL slot [Single Width GPU Config] (8) PCIe 5.0 x8 HHHL slots (2) PCIe 5.0 x16 HHHL slots (1) PCIe 5.0 x16 OCP 3.0 TSFF/SFF slot (1) PCIe 5.0 x8 HHHL slot
GPU Expansion	(4) Dual width GPUs or (8) Single width GPUs
Form Factor	3U Rackmount
Management Module	DC-SCM 1.0

QuantaGrid D74H-7U	
Processor	(2) 5th/4th Gen Intel® Xeon® Scalable processors, up to 350W TDP
Chipset	Intel® C751
Memory	Up to 8 TB memory capacity with (32) DDR5 DIMM slots
Storage	(18) 2.5" hot-pluggable NVMe drives
Network Controller	(1) Dedicated 1GbE management port
Expansion Slot	(2) PCIe 5.0 x16 OCP 3.0 slots (10) PCIe 5.0 x16 OCP 3.0 slots
GPU Expansion	NVIDIA HGX™ H100 8-GPU baseboard
Form Factor	7U Rackmount
Management Module	DC-SCM 1.0

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



QuantaGrid D53X-1U			
SKU	All Flash SKU	SFF Tiered SKU	Hybrid SKU
Processor	(2) 3rd Gen Intel® Xeon® Scalable processors, up to 270W		
Chipset	Intel® C621A		
Memory	Up to 8TB RDIMM/LRDIMM (32) 3200 MHz DDR4 RDIMM/LRDIMM		
Storage	(12) 2.5" hot-pluggable SATA/NVMe drives	(4) 2.5" hot-pluggable SATA/SAS drives (8) 2.5" hot-pluggable SATA/SAS/NVMe drives	(4) 3.5"/2.5" hot-pluggable SATA/SAS drives (4) 7mm NVMe/SATA/SAS drives (optional)
Network Controller	(1) OCP 3.0 mezzanine SFF (1) Dedicated 1GbE management port		
Expansion Slot	Option 1 (3 PCIe/HHHL Slots): (1) PCIe 4.0 x8 SAS mezzanine slot (1) PCIe 4.0 x8 OCP 3.0 mezz SFF slot (3) PCIe 4.0 x16 HHHL (ex- GPU T4) ¹ Option 2 (2 PCIe/FHHL Slots): (1) PCIe 4.0 x8 SAS mezzanine slot (1) PCIe 4.0 x8 OCP 3.0 mezz SFF slot (2) PCIe 4.0 x16 HHHL (ex- GPU T4) ¹		
Form Factor	1U Rackmount		

Note 1: GPU T4 support with limitations



QuantaGrid D53XQ-2U				
SKU	3.5" Tiered	2.5" Expander	2.5" Pass Through	2.5" All Flash
Processor	(2) 3rd Gen Intel® Xeon® Scalable processors, up to 270W			
Chipset	Intel® C621A			
Memory	Up to 12TB memory capacity with (32) DDR4 DIMM slots and Intel PMEM 200 Series, supporting 3200 MHz			
UPI	2 UPI			
Storage	Front : (12) 3.5" SATA/SAS drives including (8) NVMe slots Optional Rear : (2) 2.5" SATA/SAS/NVMe drives	Front : (24) 2.5" SATA/SAS drives including (8) NVMe slots Optional Rear : (2) 2.5" SATA/SAS/NVMe drives	Front : (16) 2.5" SATA/SAS drives (8) NVMe SSDs Optional Rear : (2) 2.5" NVMe SSDs	Front : (24) NVMe SSDs Optional Rear : (2) NVMe SSDs
Network Controller	(1) Dedicated 1GbE management port			
Expansion Slot	Option 1 (2) FHHL PCIe 4.0 x16 slots (4) FHHL PCIe 4.0 x8 slots Optional (2) HHHL PCIe 4.0 x16 slots Option 2 (2) FHFL PCIe 4.0 x16 slots (Support dual width GPUs) (2) FHHL PCIe 4.0 x16 slots Optional (2) HHHL PCIe 4.0 x16 slots Option 3 (4) FHFL PCIe 4.0 x16 slots (support single width GPUs) Optional (2) HHHL PCIe 4.0 x16 slots			
Form Factor	2U Rackmount			

QuantaPlex Series



*Per Node

QuantaPlex S45Z-2U (2U4N)		QuantaPlex S25Z-2U (2U2N)	
Processor	(1) Intel® Xeon® 6 processor, up to TDP 350W		
Memory	(16) DDR5 RDIMM up to 6,400 MHz		
Storage	Front access, E1.S: (2) E1.S hot-pluggable NVMe drives	Front access, 2.5": (3) 2.5" hot-pluggable SATA/NVMe drives	Front access, 2.5": (2) 2.5" hot-pluggable SATA/NVMe drives
Network Controller	(1) Dedicated 1GbE management port		
Expansion Slot	(1) PCIe 5.0 x16 HHHL slot (1) PCIe 5.0 x16 OCP 3.0 SFF slot	(1) PCIe 5.0 x16 OCP 3.0 SFF slot	Option 1: (2) PCIe 5.0 x16 FHHL slots SW (1) PCIe 5.0 x8 FHHL slot SW (1) PCIe 5.0 x16 OCP 3.0 SFF slot Option 2: (1) PCIe 5.0 x16 FHHL slot DW (1) PCIe 5.0 x16 FHHL slot SW (1) PCIe 5.0 x16 OCP 3.0 SFF slot
Form Factor	2U Rackmount		
Management Module	DC-SCM 2.0		



QuantaPlex S24P-5U			
SKU	84 HDD Single Node	84 HDD Dual Node	96 HDD Dual Node
Processor	(1) 5th/4th Gen Intel® Xeon® Scalable processor per node, up to 350W		
Chipset	Intel® C741		
Memory	Up to 2 TB memory capacity per node with (8) DDR5 DIMM slots per node		
Storage	(84) 3.5" hot-pluggable SATA/SAS HDDs (2) SATA/NVMe hot-pluggable U.2 per node		(96) 3.5" hot-pluggable SATA/SAS HDDs (2) SATA/NVMe hot-pluggable U.2 per node
Network Controller	(1) Dedicated 1GbE management port per node		
Expansion Slot	(1) PCIe 5.0 x16 OCP 3.0 slot per node (2) PCIe 5.0 x16 HHHL slots per node		
Form Factor	5U Rackmount		
Management Module	DC-SCM 1.0		

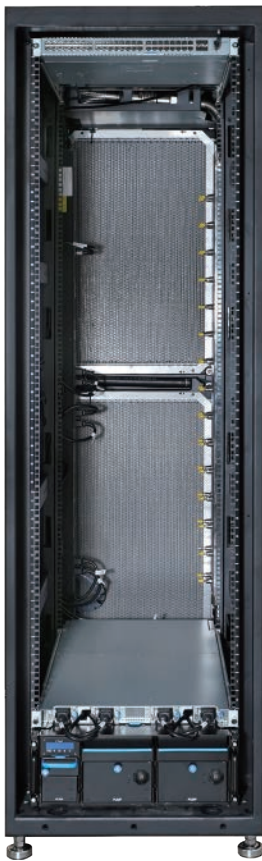
* All specifications and figures are subject to change without prior notice.



QuantaPlex T43Z-2U

Processor	(2) 3rd Gen Intel® Xeon® Scalable processors per node, up to 205W
Chipset	Intel® C621A
Memory	(16) 3200MHz DDR4 RDIMM/LRDIMM per node
Storage	(2) 2.5" hot-pluggable SATA/SAS/NVMe drives per node
Network Controller	(1) OCP 3.0 mezzanine slot per node (1) Dedicated 1GbE management port per node
Expansion Slot	(2) PCIe 4.0 x16 LP MD-2 slots per node (1) OCP 3.0 PCIe 4.0 x16 SFF mezzanine slot per node
Form Factor	2U Rackmount, 4 Nodes

QoolRack series



QoolRack Integrated Solution

Rack Frame	19" EIA
Dimensions	600mm width, 1200mm depth + RDHx 270mm, 42U height supported
Weight	With coolant 515 kg
Cooling Distribution Unit	4U CDU chassis DC-SCM 1+1 liquid pump module Liquid filter module
Power Sled	1U power sled chassis
Manifold	Up to 31 ports
Coolant	LC-25 (PG25)
Noise Level	69.5 dBA (idle; measured 1.5 m away)
Rack Management Control	Sensor monitoring Controlled by OpenBMC Remote control interface: Web-UI & Redfish API

QuantaEdge Series



EGX77B-1U	
Processor	(1) 5th/4th Gen Intel® Xeon® Scalable processor, up to 250W
Memory	(8) 4800 MHz DDR5 ECC RDIMM, up to 512GB
Storage	(2) SATA/NVMe M.2 2280
Network Controller	SKU 1: (8) 25GbE w/ SyncE, NCSI SKU 2: (4) 25GbE + (8) 10GbE w/ SyncE, NCSI
Expansion Slot	(1) FHHL PCIe 5.0 x16
Form Factor	1U Rackmount



*Per Node

EGX771-1U2N	
Processor	(1) 5th/4th Gen Intel® Xeon® Scalable processor, up to 250W
Memory	(8) 4800 MHz DDR5 ECC RDIMM, up to 512GB
Storage	(2) SATA/NVMe M.2 2280
Network Controller	Expansion SKU (8) 25GbE w/ SyncE, NCSI Storage SKU (4) 25GbE + (8) 10GbE w/ SyncE, NCSI
Expansion Slot	Expansion SKU (1) FHHL PCIe 5.0 x16 (1) HHHL PCIe 5.0 x16 Storage SKU (1) FHHL PCIe 5.0 x16
Form Factor	1U2N Sled Design



EGX741-1U	
Processor	(1) 5th/4th Gen Intel® Xeon® Scalable processor, up to 250W
Memory	(8) 4800 MHz DDR5 ECC RDIMM, up to 512GB
Storage	Expansion SKU (2) SATA/NVMe M.2 2280 Storage SKU (2) SATA/NVMe M.2 2280 (2) 2.5" U.2 SSDs
Network Controller	(4) 25GbE SFP28 ports (NCSI) (1) Dedicated 1GbE management port
Expansion Slot	Expansion SKU (2) FH3/4L PCIe 5.0 x16* (1) FHHL PCIe 5.0 x16 Storage SKU (2) FH3/4L PCIe 5.0 x16*
Form Factor	1U Rackmount

* Note : (FH3/4L) supports 266.7mm length GPU



EGX66Y-2U	
Processor	(2) 3rd Gen Intel® Xeon® Scalable processors, up to 225W
Memory	(16) 3200 MHz DDR4 RDIMM/LRDIMM up to 2TB
Storage	(2) SATA3/NVMe M.2 2280/22110 (4) 2.5" SATA3/SAS/NVMe SSDs* (1) Internal RAID card (optional)
Network Controller	(4) 25GbE SFP28 with Intel® E810 LoM (1) 1GbE RJ45 with Intel® I210 LoM (1) Dedicated 1GbE management port
Expansion Slot	GPU SKU (2) FH3/4L dual width PCIe 4.0 x16** (2) FHHL PCIe 4.0 x16 6 Expansion SKU (4) FH3/4L PCIe 4.0 x16** (1) FHHL PCIe 4.0 x16 (1) FHHL PCIe 4.0 x8
Form Factor	2U Rackmount

* Note : Supports up to 6 SATA3/NVMe SSDs

** Note : (FH3/4L) supports 266.7mm length GPU



EGX63IS-1U		
Processor	(1) 3rd Gen Intel® Xeon® Scalable processor, up to 225W	
Memory	(8) 3200 MHz DDR4 RDIMM/LRDIMM up to 512GB	
Storage	(2) SATA3/NVMe M.2 2280 (2) 2.5" SATA3 SSDs (optional)	
Network Controller	(4) 25GbE SFP28 with Intel® E810 LoM (2) 1GbE RJ45 with Intel® I210 LoM (1) Dedicated 1GbE management port	
Expansion Slot	Storage SKU (2) 2.5" SATA3 SSDs (2) FHFL PCIe 4.0 x16	Expansion SKU (1) FHHL PCIe 4.0 x16 (2) FHFL PCIe 4.0 x16
Form Factor	1U Rackmount	

EGD33B-WT	
Processor	(1) Intel® Xeon® D-2700 series, up to 118W
Memory	64GB ECC DDR4 on board
Storage	(2) SATA/NVMe M.2 2280
Network	SFP Configuration a. (8) 10GbE SFP+ ports b. (2) 25GbE SFP28 & (4) 10GbE SFP+ ports c. (4) 25GbE SFP28 ports (1) 2.5GbE RJ45 (1) Dedicated 1GbE management port
Expansion Slot	(1) PCIe 4.0 x16 FHHL
Form Factor	Pole Mount/Wall Mount/Bookshelf Mount Type
Dimensions	(W) 420mm x (H) 154mm x (D) 385mm
Operating Temperature	-40°C to 46°C w/solar load



EGT23D-DT	
Processor	(1) Intel Atom® C3000 series, up to 25W
Memory	(1) 2400MHz DDR4 SO-DIMM ECC/non ECC up to 32GB
Storage	(1) 16GB eMMC (1) SATA3 2.5" SSD
Network Controller	(2) 1GbE RJ45 with Intel® I210 LoM (4) 1GbE RJ45 with Marvell 88E1543 LoM (1 pair bypass optional) (1) 1GbE RJ45 console port
Expansion Slot	(1) Mini-PCIe for Wi-Fi (1) M.2 B Key for LTE/5G
Form Factor	Tabletop

QuantaMesh Series



	BMS T7040-IXAE	BMS T7080-IXA	BMS T4048-IX8A
Physical Ports			
Port Configuration	40-port 100GbE QSFP28	80-port 100GbE QSFP28	48-port 25GbE SFP28 & 8-port 100GbE QSFP28
Management Port	(1) OOB port (10/100/1000BASE-T)	(1) OOB port (10/100/1000BASE-T)	(1) OOB port (10/100/1000BASE-T)
Console Port	(1) RJ45	(1) RJ45	(1) RJ45
USB	(1) USB 2.0	(1) USB 2.0	(1) USB 2.0
Performance			
ASIC	Broadcom Jericho2 BCM88690	(2) Broadcom Jericho2 BCM88690	Broadcom Trident3 BCM56770
Switching Capacity	8Tbps	16Tbps	4.0Tbps
Maximum Forwarding Rate	2Bpps	4Bpps	18Bpps
Latency	Ultra-low Latency	Ultra-low Latency	Ultra-low Latency
CPU	Intel® Xeon® processor D1548	Intel® Xeon® processor D1548	Intel Atom® processor C3558
Memory	(2) 16GB DDR4/ECC	(2) 16GB DDR4/ECC	-
Flash	(2) 8MB	(2) 16MB	8GB DDR4/ECC
Storage	128G SSD	128G SSD	128G SSD
BMC	AST2520 (optional)	AST2520 (optional)	AST2520 (optional)
High Availability	Redundant Power Supply: 1+1 Hot-Swappable Fan Tray: 5+1	Redundant Power Supply: 2+2 Hot-Swappable Fan Tray: 3+1	Redundant Power Supply: 1+1 Hot-Swappable Fan Tray: 4+2



	BMS T4048-IX8A_BDE	BMS T9032-IX9	BMS T4048-IX8/IX8D	
Physical Ports				
Port Configuration	48-port 25GbE SFP28 & 8-port 100GbE QSFP28	32-port 400GbE QSFP-DD	48-port 25GbE SFP28 & 8-port 100GbE QSFP28	
Management Port	(1) RJ45 out-of-band management port (10/100/1000M)	(1) OOB port (10/100/1000BASE-T)	(1) OOB port (10/100/1000BASE-T)	
Console Port	(1) RJ45	(1) RJ45	(1) RJ45	
USB	(1) USB 2.0	-	(1) USB 2.0	
Performance				
ASIC	Broadcom Trident3 BCM56770	Broadcom Tomahawk3 BCM56980	Broadcom Trident3 BCM56873	
Switching Capacity	4.0Tbps	25.6Tbps	4.0Tbps	
Maximum Forwarding Rate	1B PPS	8Bpps	2Bpps	
Latency	Ultra-low latency	Ultra-low Latency	Ultra-low Latency	
MAC	Unified Forwarding Table to dynamically allocate the L2/L3 tables	8K to 64K	Up to 288K	
CPU	Intel Broadwell DE D-1527, TPM 2.0	Intel Xeon® processor D1527	Intel Atom® processor C2558	Intel Atom® processor C3558
Memory	8GB SO-DIMM DDR4	32GB DDR4/ECC	32GB DDR4/ECC	8GB DDR3/ECC
Flash	32 MB	-	-	
Storage	128G SSD M.2	128G SSD	32G SSD	
BMC	-	AST2520	AST2520	
High Availability	Redundant Power Supply: 1+1 Hot-Swappable Fan Tray: 4+2	Redundant Power Supply: 1+1 Hot-Swappable Fan Tray: 5+1	Redundant Power Supply: 1+1 Hot-Swappable Fan Tray: 4+2	

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	BMS T7032-IX7/IX7D	BMS T7032-IX7_BDE	BMS T1048-LB9M
Physical Ports			
Port Configuration	32-port 100GbE QSFP28	32-port 100GbE QSFP28	48-port 1000BASE-T & 4-port 25GbE SFP28
Management Port	(1) OOB port (10/100/1000BASE-T)	Out-of-band management port (RJ-45, 10/100/1000Base-T)	(1) OOB port (10/100/1000BASE-T)
Console Port	(1) RJ45	(1) RJ45	(1) RJ45
USB	(1) USB 2.0	(1) USB 2.0	-
Performance			
ASIC	Broadcom Trident3 BCM56870	Broadcom Trident3 BCM56870	Broadcom StrataXGS Hurricane3-MG
Switching Capacity	6.4Tbps	6.4Tbps	296Tbps
Maximum Forwarding Rate	2Bpps	2Bpps	220Mpps
Latency	Ultra-low Latency	Ultra-low Latency	Ultra-low latency
MAC	Up to 288K	Unified Forwarding Table to dynamically allocate the L2/L3 tables	Up to 32K
CPU	Intel Atom® processor C2558	Intel Atom® processor C3558	Intel Broadwell DE D-1527, TPM 2.0
Memory	8G DDR3/ECC	8G DDR4/ECC	8GB SO-DIMM DDR4
Flash	-	32MB	2G DDR4/ECC
Storage	32G SSD	128G SSD M.2	128MB
BMC	AST2520	-	8G SSD
High Availability	Redundant Power Supply: 1+1 Hot-Swappable Fan Tray: 4+2	Redundant Power Supply: 1+1 Hot-Swappable Fan Tray: 4+2	Redundant Power Supply: 1+1



QuantaMesh T1048-LY4R	
Physical Ports	
Port Configuration	48-port 1000BASE-T & 4-port 10GbE SFP+
Management Port	(1) 10/100/1000BASE-T (RJ45) & (1) 1000BASE-X (SFP)
Console Port	(1) RJ45
USB	(1) USB 2.0
Performance	
ASIC	Broadcom StrataXGS Hurricane2
Switching Capacity	176Gbps
Maximum Forwarding Rate	131Mpps
Latency	-
MAC	16K
CPU	Intel Atom® processor C2338
Memory	8GB DDR3/ECC
Flash	-
Storage	8GB microSD
BMC	AST2520
High Availability	Redundant Power Supply: 1+1



	BMS T7032-IX7/IX7D	BMS T7032-IX7_BDE	BMS T1048-LB9M
Physical Ports			
Port Configuration	32-port 100GbE QSFP28	32-port 100GbE QSFP28	48-port 1000BASE-T & 4-port 25GbE SFP28
Management Port	(1) OOB port (10/100/1000BASE-T)	Out-of-band management port (RJ-45, 10/100/1000Base-T)	(1) OOB port (10/100/1000BASE-T)
Console Port	(1) RJ45	(1) RJ45	(1) RJ45
USB	(1) USB 2.0	(1) USB 2.0	-
Performance			
ASIC	Broadcom Trident3 BCM56870	Broadcom Trident3 BCM56870	Broadcom StrataXGS Hurricane3-MG
Switching Capacity	6.4Tbps	6.4Tbps	296Tbps
Maximum Forwarding Rate	2Bpps	2Bpps	220Mpps
Latency	Ultra-low Latency	Ultra-low Latency	Ultra-low latency
MAC	Up to 288K	Unified Forwarding Table to dynamically allocate the L2/L3 tables	Up to 32K
CPU	Intel Atom® processor C2558	Intel Atom® processor C3558	Intel Broadwell DE D-1527, TPM 2.0
Memory	8G DDR3/ECC	8G DDR4/ECC	8GB SO-DIMM DDR4
Flash	-	32MB	2G DDR4/ECC
Storage	32G SSD	128G SSD M.2	8G SSD
BMC	AST2520	-	-
High Availability	Redundant Power Supply: 1+1 Hot-Swappable Fan Tray: 4+2	Redundant Power Supply: 1+1 Hot-Swappable Fan Tray: 4+2	Redundant Power Supply: 1+1



	QuantaMesh T1048-LY4R
Physical Ports	
Port Configuration	48-port 1000BASE-T & 4-port 10GbE SFP+
Management Port	(1) 10/100/1000BASE-T (RJ45) & (1) 1000BASE-X (SFP)
Console Port	(1) RJ45
USB	(1) USB 2.0
Performance	
ASIC	Broadcom StrataXGS Hurricane2
Switching Capacity	176Gbps
Maximum Forwarding Rate	131Mpps
Latency	-
MAC	16K
CPU	Intel Atom® processor C2338
Memory	8GB DDR3/ECC
Flash	-
Storage	8GB microSD
BMC	AST2520
High Availability	Redundant Power Supply: 1+1

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Quanta Cloud Technology (QCT) designs, manufactures, integrates and services cutting edge offerings for 5G Telco/Edge, AI/HPC, Cloud, and Enterprise infrastructure via its own global network. Product lines include hyper-converged and software-defined data center solutions as well as servers, storage, and network switches from 1U to entire racks with a diverse ecosystem of hardware components and software partners to fit a variety of business verticals and workload parameters.

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