



QCT POD FOR MEDICAL

QPM



QCT POD for Medical

Nowadays, medical researchers are focusing on real time health data capture, precise data analysis, as well as AI assisted diagnosis. Due to the trend of increasing data volumes, the need for scalable storage systems and data management system are becoming more important than ever along with time and cost efficiency of medical resources which are also critical issues when addressing complex medical tasks. Thus, modernizing the infrastructure (i.e. server, storage, networking, rack) becomes a key to realizing medical innovation.

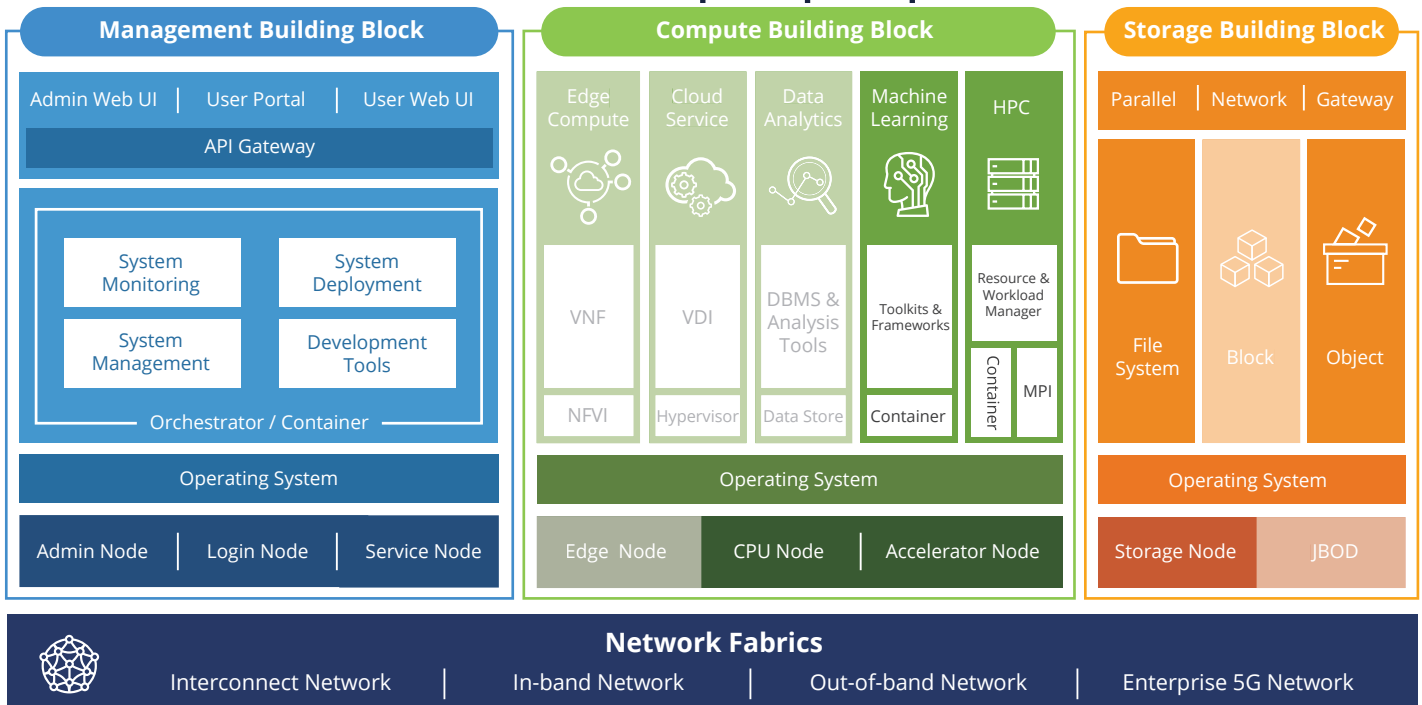
QCT is offering its QCT POD for Medical (QPM) solution that empowers medical organization to start their digital transformation journey. It combines advanced technology with a unique user experience to power medical organizations to reach better performance and gain more insights. With flexibility and scalability, QCT POD for Medical (QPM) enables its users to address a broad range of medical demands and to fulfill various applications.

QPM Solution Overview

QPM (QCT POD for Medical) provides an on-premise rack-level system for the healthcare industry. With our in-house designed hardware and management tools, QPM is pre-validated and pre-configured, which saves customer time and resources with its rapid deployment and easy management. To reach greater flexibility and scalability, QPM offers common building blocks to meet different medical demands, like those for Next-Generation Sequencing (NGS), Molecular Dynamics (MD) and Medical Imaging. Due to the quality and serviceability of the platform, QCT can accelerate the time-to-value on workloads like cancer gene detection and drug discovery for medical researchers.

Workloads

Molecular Dynamic	Next-Generation Sequencing		Medical Imaging	
GROMACS	BWA	GATK	QOCA aim	aetherAI



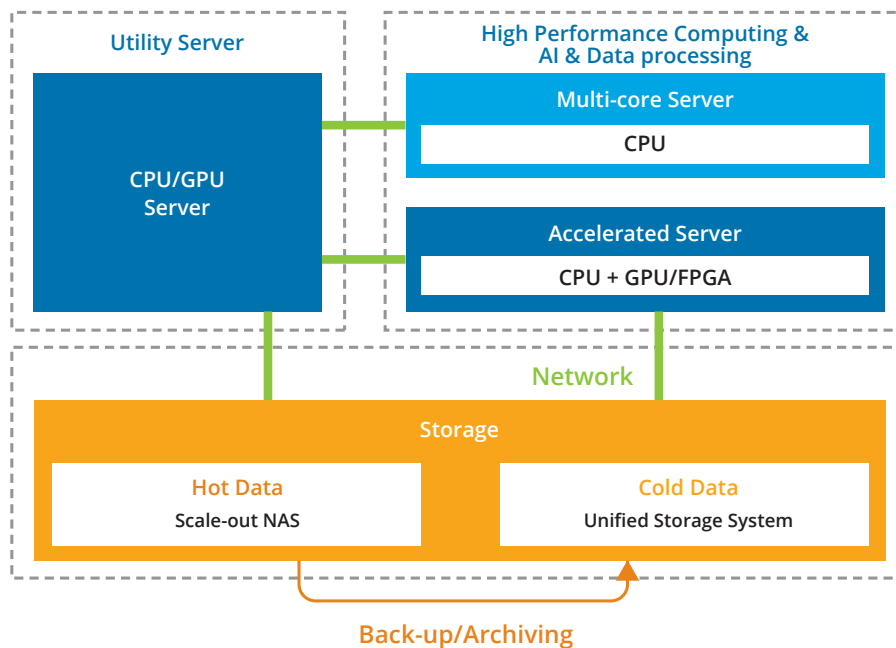
Key Benefits

- Leverages a modularized architecture design to fulfill various medical workloads, including Next-Generation Sequencing (NGS), Molecular Dynamics (MD) Simulation, and Medical Imaging
- Best-practice turnkey solution to accelerate medical organizations' time-to-value
- A web-based dashboard to simplify system monitoring and management
- Minimizes the total cost of ownership with a scalable storage system
- Reduces deployment efforts while enhancing efficiency
- Provides server systems with converged HPC/AI computing resources to improve system utilization and avoid system silos

- 👤 **For Users:** Speed up productivity with a best-fit integrated system to get insights faster and deeper
- 👤 **For Administrators:** Streamline system monitoring and management with intelligent management tools
- 👤 **For Developers:** Accelerate developing with a comprehensive environment

QPM System Features

- A converged computing platform for data analysis, high-performance computing, and deep learning
- Supports the storage management of storage systems to deliver scalability and data protection
- Dedicated management services that allow simultaneous multi-user login and administration with web-based dashboard
- Pre-configured and pre-validated systems equipped with deployment tools to streamline implementation processes
- A multi-user development platform with enhanced resource allocation capabilities and increase efficiency



QPM Product Portfolio

Building Blocks		Starter		Standard		Advanced		Premium			
		Qty	Specification	Qty	Specification	Qty	Specification	Qty	Specification		
Management Nodes	Deployment & Login	1	D43N-3U (SKU1)	1	D43N-3U (SKU2)	1	D43K-1U (SKU1)	1	D43K-1U (SKU1)		
	Admin & Service					1	T43Z-2U	1	T43Z-2U		
Computing Nodes	HPC CPU & Data Processing					1	D43N-3U (SKU3)	1	D43N-3U (SKU3)	1	D43K-1U (SKU2)
	AI training					2	D43N-3U (SKU3)	2	D43N-3U (SKU3)	2	D43N-3U (SKU3)
Storage Nodes	Capacity			3	D52T-1U*	3	D52T-1U*	4	D52T-1U		
	Performance			2	D53XQ-2U*	2	D53XQ-2U*	4	D53XQ-2U		
Network Fabrics	Out-of-Band Management			1	T1048-LB9M	1	T1048-LB9M	1	T1048-LB9M		
	Service Management					1	T4048-IX8D	1	T4048-IX8D		
	Compute/Storage Network					1	T4048-IX8D	1	T4048-IX8D		

* Please consider either capacity or performance maximized storage adoption for Standard & Advanced.

Management/Compute Nodes



QuantaGrid D43N-3U

SKU1

- 2x CPU 7713
- 16x 32G 3200
- 2x 480GB 2.5" SSD
- 4x 3.84TB 2.5" NVMe SSD
- 2x NVIDIA® A6000
- 1x 25GbE DP NIC

SKU2

- 2x CPU 7713
- 16x 32G 3200
- 2x 480GB 2.5" SSD
- 4x 3.84TB 2.5" NVMe SSD
- 4x NVIDIA® A6000
- 1x 25GbE DP NIC

SKU3

- 2x CPU 7713
- 16x 32G 3200
- 2x 480GB 2.5" SSD
- 4x 3.84TB 2.5" NVMe SSD
- 4x NVIDIA® A100 80GB
- 1x 25GbE DP NIC



QuantaPlex T43Z-2U

Per node:

- 1x Intel® Xeon® Gold 6326
- 256GB DDR4
- 2x 1.92TB 2.5" SSD
- 2x 25GbE DP NIC



QuantaGrid D43K-1U

SKU1

- 2x CPU 7413
- 512GB DDR4
- 2x 480GB 2.5" SSD
- 4x 1.92TB 2.5" SSD
- 1x 25GbE DP NIC

SKU2

- 2x CPU 7713
- 1024GB DDR4
- 2x 480GB 2.5" SSD
- 1x 25GbE DP NIC

Storage Nodes



QuantaGrid D52T-1U

Per node:

- 2x Intel® Xeon® Gold 6226 processor
- 384GB DDR4
- 2x 480GB 7mm SSD
- 12x 16TB 3.5" HDD
- 2x 25GbE DP NIC



QuantaGrid D53XQ-2U

- 2x Intel® Xeon® Gold 6326 processor
- 512GB DDR4
- 2x 480GB 2.5" SSD
- 14x 1.92TB 2.5" SSD
- 4x 1.92TB 2.5" NVMe SSD
- 1x 25GbE DP NIC

Network Fabric



QuantaMesh T1048-LB9M

- 48x RJ45 (1GbE)
- 4x SFP+ (25GbE)
- OOB: 1x RJ45 (1GbE)



QuantaMesh T4048-IX8D

- 48x SFP+ (25GbE)
- 8x QSFP (100GbE)
- OOB: 1x RJ45 (1GbE)

About QCT

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

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

For more information, visit the QCT website at www.QCT.io.

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