QxStor
Microsoft Backup Solution

A Turnkey Storage Spaces Direct Solution Optimized for Modernized Backup and Recovery

QxStor Microsoft Backup Solution enables a cost efficient and easy-to-manage experience to meet petabyte level backup demands. Achieve over 200TBs of backup per night and easily scale as needed.

Solution Overview

In the Cloud era, many enterprises and service providers are still using legacy systems with traditional backup and replication software for their backup environment. Different hardware vendors and architectures have become a norm in the enterprise backup space with slow backup speeds and long rebalance times. As a result, the current backup products in the market simply cannot meet enterprise demands in the data boom they are facing.

To fulfill enterprise backup and recovery needs, QCT provides a 5-node minimum (up to 8 node) pre-configured turnkey solution leveraging QCT industry leading 78 disk 4U form factor T21P-4U, specially designed for service providers and medium-large size enterprises with backup and archive demands, or even large storage needs.

Imagine backing up a high scale database system, or even hundreds of VMs, within an hour. QxStor Backup Solution ensures nightly backup beyond 200 TB which can make large scale data backup easy to do on a daily basis. By fully integrating Veeam with Microsoft Storage Space Direct(S2D), QCT leverages the best of S2D's Block Cloning technology that not only provides better performance but also saves more storage space.

> " Storage Spaces Direct in Windows Server 2019 is immensely more scalable, up to 4 petabytes (4,000 TB) per cluster. This makes it ideal for backup and archival use cases, where the lower cost of software-defined storage is especially significant. "
>
> **- Cosmos Darwin,**
> **Program Manager, Microsoft**

Key Benefit

Achieve cost efficiency

Cost-effective open x86 platform with S2D, coupled with 50%+ raw to usable data ratios and very-high data throughput, in a rack dense 4U per 512TB form factor, allows you to avoid paying high premiums to maintain traditional backup storage.
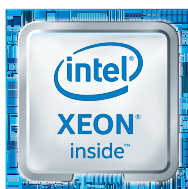
Ensure business continuity with powered quality

Pre-configured hardware and software ensures nightly backup of over 130 TB of data under optimal performance and raw space utilization. Drive down backup and restore times, cost and complexity by removing tape from clients ultra-high-capacity data archiving workloads.

Simplify your entire management experience

Deliver simple, and ease of mind management experience leveraging QCT's Windows Admin Center, and Lifecycle Management Suite.

Powered by Intel® Xeon® processors
Intel Inside®. New Possibilities Outside.

Found at: www.QCT.io/wheretobuy

Why QCT?

Cost efficiency with quick data back up and less recovery time

Compared to high-end archive/backup storage platforms, QxStor Backup Solution offers a more cost efficient way to meet petabyte level backup demand by leveraging a rack dense 0.5PB 4U form factor. To support this scale, this turnkey solution ensures over 200TBs of backup amount per night, and can easily scale as needed. With advances in highly availability and zero downtime upgrades without sacrificing backup speeds, this solution offers enterprises a reliable choice, from an availability and performance perspective.

Reliability enhanced by comprehensive certification, validation, and service automation tool

On top of the backup infrastructure itself, QCT also provides a 3 year, 5x8 /7x24, standard/ on-site hardware warranty and life cycle management to support patching and updates.

Lifecycle Management Suite (LMS)
QCT's pre-configured HCI Infrastructure includes LMS, which ensures that Microsoft regular patch updates that contain feature updates and security enhancements are validated against infrastructure firmware/driver updates.

QCT integrates LMS's validation work with its automation update tool to deliver an integrated, ease of mind experience when customer manages the lifecycle of QCT infrastructure.

Found at:
www.QCT.io/wheretobuy

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> ❝ The T21P is the largest capacity system ever certified for Storage Spaces Direct and WSSD. QCT and Microsoft have collaborated throughout the development of Windows Server to help deliver this incredible solution to customers. We believe that a whole new world of uses become possible with solutions built around a high-density storage platform like the T21P. ❞
>
> **- Carmen Crincoli, Program Manager, Microsoft**

Orderable BOM	**QuantaPlex T21P-4U**		
Position	Backup/Archive or Large Storage		
Scale	5-8 Nodes		
Form Factor	4U 1-Node Rackmount Server		
RDMA / TPM 2.0	Yes / Yes		
CPU	Intel® Xeon® processor E5-2600 v4 product family		
Memory	512GB		
HBA	2x LSI 3008		
NIC	2x Mellanox CX4, Dual Port 25G		
Drives (Per Node)	Type	Qty.	Size
Cache	SATA SSD	8	1.92TB
Capacity	SATA HDD	64	8TB

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 hyper-converged and software-defined data center solutions as well as servers, storage, switches, 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.

QCT authorized partner

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