



Windows Server Software Defined Solutions

Accelerate your business with QCT WSSD solutions

Get your customers up and running with QCT WSSD solutions. All our systems are preconfigured with certified components, tested and certified by QCT, to avoid any guesswork.

About WSSD

The Windows Server Software Defined (WSSD) Program is an invitation-only program by Microsoft in which solution providers design hyper-converged appliances that integrate Windows Server 2016 Software-Defined infrastructures. After going through Microsoft's validation and requirements, one's solution can be endorsed by Microsoft as the quickest, low risk, cost-effective way to consume Windows Server 2016 Software-Defined Data Center.

The WSSD program requires solution providers to pass four phases—design, validation, deployment and operations. Designed configurations must be reviewed and validated by Microsoft, following Software-Defined Datacenter Additional Qualifications (SDDC AQ). Afterwards, one must firmly follow Microsoft's deployment and operation policies to be considered part of the WSSD program.

QCT has long been partnering with Microsoft in delivering enterprise solutions that best fit their clients' needs. WSSD validation demonstrates our values in performance optimization and economic price per performance.



Partner: QCT

Website: <https://qct.io>

Partner Size: 1000 employees

Country or Region: Taiwan

Industry: Cloud Technology

Partner Profile: Cloud Solution Provider

“ We offer our clients the most diverse lineup of pre-integrated cloud hardware and software solutions. ”

Mike Yang, President of QCT

“ 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

Key Benefits



Enable diverse use cases

Various configurations optimized for diverse business critical applications and use cases to make adoption more convenient.



Deliver time-to-value

Pre-configured with certified components and pre-validated configuration to minimize your hardware and software integration efforts.



Ease of deployment

Ease of deployment allows our team of experts to walk you through our portfolio and recommend the best suited solution.

Specification

QCT offers Windows Server Software Defined Solutions with simplified deployment, management, and operation, and in various configurations.

Capacity

| Orderable BOM | QuantaPlex T21P-4U | | |
|-------------------|--|------|----------------------|
| Scale | 2-4 Nodes | | |
| Form Factor | 4U 1-Node Rackmount Server | | |
| RDMA / TPM 2.0 | Yes / Yes | | |
| CPU | Intel® Xeon® processor E5-2600 v4 product family | | |
| Memory | 256 GB – 512GB | | |
| HBA | Avago SAS3 3008 Fury | | |
| NIC | 2x Mellanox ConnectX-4, Dual Port 25G | | |
| Drives (Per Node) | Type | Qty. | Size |
| Cache | SATA SSD | 8-16 | 480GB, 960GB, 1.92TB |
| Capacity | SATA HDD | 8-64 | 8TB, 10TB |

Performance

| Orderable BOM | QuantaGrid D51B-2U | | | QuantaGrid D52BQ-2U | | | QuantaPlex T41S-2U | | | QuantaPlex T42S-2U | | | QuantaGrid D52BV-2U | | |
|-------------------|--|------|-------|---|------|----------------------|--|------|----------------------|---|------|----------------------|---|------|----------------------|
| Scale | 2-16 Nodes | | | 2-4 Nodes | | | 4-16 Nodes | | | 4-16 Nodes | | | 2-4 Nodes | | |
| Form Factor | 2U 1-Node Rackmount Server | | | 2U 1-Node Rackmount Server | | | 2U 4-Node Rackmount Server | | | 2U 4-Node Rackmount Server | | | 2U 1-Node Rackmount Server | | |
| RDMA / TPM 2.0 | Yes / Yes | | | Yes / Yes | | | Yes / Yes | | | Yes / Yes | | | Yes / Yes | | |
| CPU | Intel® Xeon® Processor E5-2600 v4 product family | | | Intel® Xeon® Scalable processors with Silver, Gold and Platinum options | | | Intel® Xeon® Processor E5-2600 v4 product family | | | Intel® Xeon® Scalable processors with Silver, Gold and Platinum options | | | Intel® Xeon® Scalable processors with Silver, Gold and Platinum options | | |
| Memory | 256 GB – 768GB | | | 256 GB – 768GB | | | 256 GB – 512GB | | | 256 GB – 512GB | | | 256 GB – 768GB | | |
| HBA | Avago SAS3 3008 Fury | | | SAS 9305-16i | | | N/A | | | N/A | | | N/A | | |
| NIC | 1x Quanta OCP Mezz CX4, Dual Port 25G | | | 1x Quanta OCP Mezz CX4, Dual Port 25G | | | 1x Quanta OCP Mezz CX3, Dual Port 10G | | | 1x Quanta OCP Mezz CX4, Dual Port 25G | | | 1x Quanta OCP Mezz CX4, Dual Port 25G | | |
| Drives (Per Node) | Type | Qty. | Size | Type | Qty. | Size | Type | Qty. | Size | Type | Qty. | Size | Type | Qty. | Size |
| Cache | NVMe SSD | 2 | 800GB | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Capacity | SATA SSD | 12 | 960GB | SATA SSD | 4-24 | 480GB, 960GB, 1.92TB | SATA SSD | 4-6 | 480GB, 960GB, 1.92TB | SATA SSD | 4-6 | 480GB, 960GB, 1.92TB | SATA SSD | 4-8 | 480GB, 960GB, 1.92TB |

Balanced

| Orderable BOM | QuantaGrid D51PH-1ULH | | | QuantaGrid D52T-1ULH | | | QuantaGrid D52BQ-2U | | | QuantaPlex T41S-2U | | | QuantaPlex T42S-2U | | | QuantaGrid S31A-1U | | |
|-------------------|--|------|-------|---|------|-------|---|------|----------------------|--|------|----------------------|---|------|----------------------|--|------|----------------------|
| Scale | 2-16 Nodes | | | 2-4 Nodes | | | 2-4 Nodes | | | 4-16 Nodes | | | 4-16 Nodes | | | 2-4 Nodes | | |
| Form Factor | 1U 1-Node Storage Server | | | 1U 1-Node Storage Server | | | 2U 1-Node Rackmount Server | | | 2U 4-Node Rackmount Server | | | 2U 4-Node Rackmount Server | | | 1U 1-Node Rackmount Server | | |
| RDMA / TPM 2.0 | Yes / Yes | | | Yes / Yes | | | Yes / Yes | | | Yes / Yes | | | Yes / Yes | | | Yes / Yes | | |
| CPU | Intel® Xeon® Processor E5-2600 v4 product family | | | Intel® Xeon® Scalable processors with Silver, Gold and Platinum options | | | Intel® Xeon® Scalable processors with Silver, Gold and Platinum options | | | Intel® Xeon® Processor E5-2600 v4 product family | | | Intel® Xeon® Scalable processors with Silver, Gold and Platinum options | | | Intel® Xeon® processor E3-1200 v6 product family | | |
| Memory | 256 GB – 512GB | | | 256 GB – 512GB | | | 256 GB – 768GB | | | 256 GB – 512GB | | | 256 GB – 512GB | | | 64GB – 128GB | | |
| HBA | Avago SAS3 3008 Fury | | | Avago SAS3 3008 Fury | | | SAS 9305-16i | | | N/A | | | N/A | | | N/A | | |
| NIC | 1x Quanta OCP Mezz CX3, Dual Port 10G | | | 1x Quanta OCP Mezz CX4, Dual Port 25G | | | 1x Quanta OCP Mezz CX4, Dual Port 25G | | | 1x Quanta OCP Mezz CX3, Dual Port 10G | | | 1x Quanta OCP Mezz CX4, Dual Port 25G | | | 1x Quanta OCP Mezz CX3, Dual Port 10G | | |
| Drives (Per Node) | Type | Qty. | Size | Type | Qty. | Size | Type | Qty. | Size | Type | Qty. | Size | Type | Qty. | Size | Type | Qty. | Size |
| Cache | SATA SSD | 4 | 1.2TB | SATA SSD | 2-4 | 1.2TB | SATA SSD | 2-4 | 480GB, 960GB, 1.92TB | SATA SSD | 2 | 480GB, 960GB, 1.92TB | SATA SSD | 2 | 480GB, 960GB, 1.92TB | N/A | N/A | N/A |
| Capacity | SATA HDD | 12 | 6TB | SATA HDD | 4-12 | 6TB | SATA HDD | 4-8 | 8TB, 10TB | SATA HDD | 4 | 2TB | SATA HDD | 4 | 2TB | SATA SSD | 4 | 480GB, 960GB, 1.92TB |

Find your ideal model / Enable diversified workloads on tailored configurations

Performance



QuantaGrid D51B-2U

Optimized for performance

Performance

Balanced



QuantaGrid D52BQ-2U

Optimized for performance and scalability

Optimized for compute and storage density

Performance

Balanced



QuantaPlex T41S-2U (4 Node)

Optimized for performance and density

Optimized for serviceability and energy efficiency

Performance

Balanced



QuantaPlex T42S-2U (4 Node)

Optimized for performance and density

Optimized for serviceability and energy-efficient

Performance



QuantaGrid D52BV-2U

Optimized for HPC/DL/ML workloads

Balanced



QuantaGrid D51PH-1ULH

Optimized for density

Balanced



QuantaGrid D52T-1ULH

Optimized for density

Balanced



QuantaGrid S31A-1U

Optimized for cost efficiency

Capacity



QuantaPlex T21P-4U

Optimized for capacity and throughput