

Data Sheet

QSAN Fabric Attached Storage

XE5 Series

High-Density NVMe-oF JBOF Excel in Efficiency

Key Benefits

Extreme Flash Performance

- NVMe-based architecture for high-throughput data access
- Microsecond-level latency for consistent response time
- High IOPS capability for performance-critical workloads
- Support for GPUDirect Storage to enable direct data transfer between storage and GPU for accelerated workloads

Enterprise Reliability

- 99.9999% high availability with overall modular design performs no single point of failure
- Non-disruptive firmware upgrade and backup appliance reach zero downtime

Effortless Management

- Centralized management through XInsight platform
- Support RESTful API and SNMP for system integration
- Simplified monitoring and maintenance

Born in Flash, Built for Agility

The QSAN XE5 is an NVMe-oF JBOF fabric attached storage that provides high-density all-NVMe flash array and supports NVMe-oF connectivity, designed for performance-oriented enterprise environments. With flash-based architecture, the system delivers consistent low-latency response and high throughput, enabling efficient data access for AI workloads, database systems, and other data-intensive applications.

High-Performance End-to-End NVMe Architecture

The platform adopts a high-density NVMe SSD design to support parallel I/O processing and sustained throughput under demanding workloads, delivering up to 400 Gb/s bandwidth. With NVIDIA® GPUDirect Storage support, XE5 ensures stable performance and minimizes response time impact across applications requiring continuous data access.

Scalable Performance Expansion

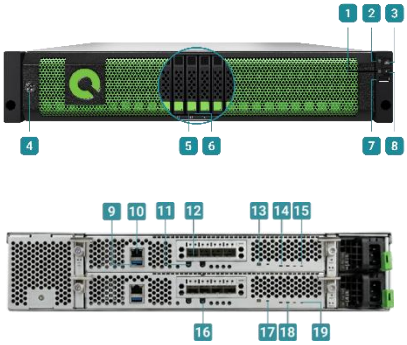
The system is designed to support flexible deployment across QSAN storage platforms and server direct-attached environments. By providing high-performance flash expansion that can be integrated with both QSAN systems and external servers, it enables organizations to adjust performance capacity based on workload requirements. This approach allows more efficient resource allocation and simplifies scaling in performance-driven scenarios across diverse infrastructure architectures.

Simplified Management

The platform supports centralized management through the QSAN XInsight platform, enabling administrators to monitor, control, and coordinate operations across multiple systems from a unified interface. With cross-system interaction consolidation capabilities, XInsight allows administrators to manage resources, monitor performance, and streamline workflows across storage environments.

QSAN

Appearance



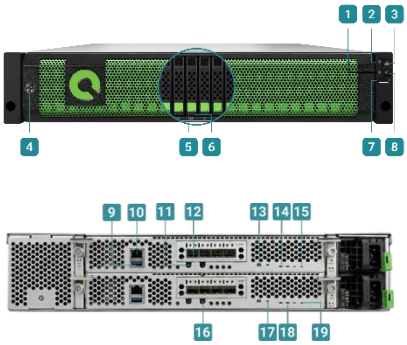
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8. UID (Unique Identifier) Button / LED
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10. 2.5 GbE LAN Port
11. Console Port
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13. Buzzer Mute Button
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17. Reset to Factory Default Button
18. Master / Slave LED (only for dual controllers)
19. UID (Unique Identifier) LED

System Specification

Model Name	XE5026D-400G	XE5026S-200G
Architecture	Dual-active controller	Single-upgradable controller
CPU		
Processor	Intel® Xeon® 4-core x 2	Intel® Xeon® 4-core
Memory		
Memory Module Pre-installed	16 GB DDR4 DIMM	8 GB DDR4 DIMM
Total Memory Slots	2	1
Storage		
Drive Bays	2.5" Slot x 26	
Compatible Drive Type	2.5" dual-port U.2 NVMe SSD	2.5" single-port U.2 NVMe SSD
Drive Interface	U.2 NVMe (PCIe Gen 4)	
Maximum Internal Raw Capacity	1,597 TB	
Hot Swappable Drive	Yes	
Connectivity Port		
Host Connection Port	4 x 100 GbE QSFP LAN Port	2 x 100 GbE QSFP LAN Port
2.5 GbE RJ45 LAN Port	2 (onboard management port)	1 (onboard management port)
Expansion and External Port		
USB Port	3	2
Console Port	2	1
Software Specification		
Software Acceleration	NVIDIA® GPUDirect Storage	
Transportation Protocol	NVMe-oF (TCP / RoCE)	
Management	Web UI / RESTful API / S.E.S. / LCM	
Appearance		
Dimension (H x W x D) (mm)	88 x 438 x 573	
Net Weight (kg)	19.6	16.5
Gross Weight (kg)	28.6	25.5
Others		
System Fan	8 pcs	4 pcs
Power Supply Unit	850 W x 2 (80 Plus Platinum)	
Power Input	100 - 240 VAC, 50/60 Hz	
Power Consumption	812 W / 2,770 BTU	
Certification	CE / FCC / BSMI	
Standard Warranty	System: 5 years	

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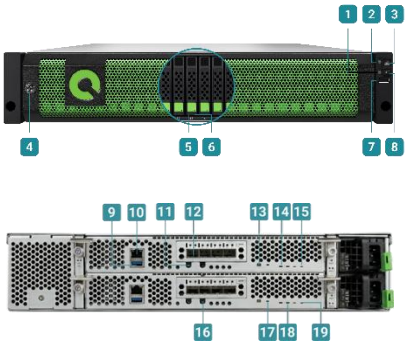
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System Specification

Model Name	XE5026D-200G	XE5026S-100G
Architecture	Dual-active controller	Single-upgradable controller
CPU		
Processor	Intel® Xeon® 4-core x 2	Intel® Xeon® 4-core
Memory		
Memory Module Pre-installed	16 GB DDR4 DIMM	8 GB DDR4 DIMM
Total Memory Slots	2	1
Storage		
Drive Bays	2.5" Slot x 26	
Compatible Drive Type	2.5" dual-port U.2 NVMe SSD	2.5" single-port U.2 NVMe SSD
Drive Interface	U.2 NVMe (PCIe Gen 4)	
Maximum Internal Raw Capacity	1,597 TB	
Hot Swappable Drive	Yes	
Connectivity Port		
Host Connection Port	8 x 25 GbE SFP28 LAN Port	4 x 25 GbE SFP28 LAN Port
2.5 GbE RJ45 LAN Port	2 (onboard management port)	1 (onboard management port)
Expansion and External Port		
USB Port	3	2
Console Port	2	1
Software Specification		
Software Acceleration	NVIDIA® GPUDirect Storage	
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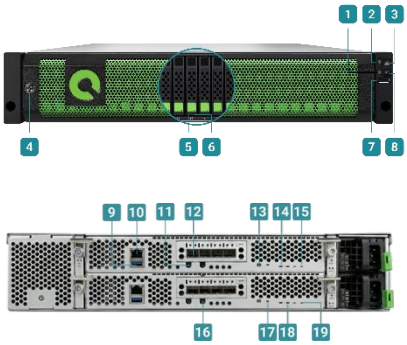
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System Specification

Model Name	XE5026D-100G	XE5026S-50G
Architecture	Dual-active controller	Single-upgradable controller
CPU		
Processor	Intel® Xeon® 4-core x 2	Intel® Xeon® 4-core
Memory		
Memory Module Pre-installed	16 GB DDR4 DIMM	8 GB DDR4 DIMM
Total Memory Slots	2	1
Storage		
Drive Bays	2.5" Slot x 26	
Compatible Drive Type	2.5" dual-port U.2 NVMe SSD	2.5" single-port U.2 NVMe SSD
Drive Interface	U.2 NVMe (PCIe Gen 4)	
Maximum Internal Raw Capacity	1,597 TB	
Hot Swappable Drive	Yes	
Connectivity Port		
Host Connection Port	4 x 25 GbE SFP28 LAN Port	2 x 25 GbE SFP28 LAN Port
2.5 GbE RJ45 LAN Port	2 (onboard management port)	1 (onboard management port)
Expansion and External Port		
USB Port	3	2
Console Port	2	1
Software Specification		
Software Acceleration	NVIDIA® GPUDirect Storage	
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System Specification

Model Name	XE5026D-80G	XE5026S-40G
Architecture	Dual-active controller	Single-upgradable controller
CPU		
Processor	Intel® Xeon® 4-core x 2	Intel® Xeon® 4-core
Memory		
Memory Module Pre-installed	16 GB DDR4 DIMM	8 GB DDR4 DIMM
Total Memory Slots	2	1
Storage		
Drive Bays	2.5" Slot x 26	
Compatible Drive Type	2.5" dual-port U.2 NVMe SSD	2.5" single-port U.2 NVMe SSD
Drive Interface	U.2 NVMe (PCIe Gen 4)	
Maximum Internal Raw Capacity	1,597 TB	
Hot Swappable Drive	Yes	
Connectivity Port		
Host Connection Port	8 x 10 GbE SFP+ LAN Port	4 x 10 GbE SFP+ LAN Port
2.5 GbE RJ45 LAN Port	2 (onboard management port)	1 (onboard management port)
Expansion and External Port		
USB Port	3	2
Console Port	2	1
Software Specification		
Software Acceleration	NVIDIA® GPUDirect Storage	
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