

Data Sheet

QSAN Container Server

KS2 Series

Integrated Container Platform for On-Prem and Edge Computing Cluster

Key Benefits

Plug-and-Play Engine

- Preconfigured for fast deployment, allowing IT teams to quickly integrate container workloads without complex setup
- Unified management interface simplifies operations by consolidating container and cluster monitoring into a single unified center

Scale as You Grow

- Cluster-ready architecture supports up to 8 nodes, enabling horizontal scaling to meet growing workload demands

Always-On Protection with Profession

- Stay protected with enterprise-grade data safeguards, including snapshots, real-time replication, and Rsync.
- Service Failover / Failback

All-in-One Container Specified Computing Node

QSAN KS2 series (Kubernetes Server) is a container-native converged node built to support cloud native environments in both management and computing, enabling developers and IT teams to easily deploy and manage containerized applications in on-premises or hybrid environments. With native support for stateful services, it bridges the gap between compute orchestration and robust enterprise storage.

Effortless Deployment with Streamlined Management

From initial setup to ongoing management, The KS2 series provides an intuitive graphical interface designed for streamlined deployment. Even without deep container experience, teams can quickly launch services, monitor resource usage, and scale deployments with just a few clicks, without any CLI operations.

Scale for the Best Resilience

Featuring a resilient scale-out architecture that supports cluster deployment of up to 8 nodes. As workloads grow, organizations can seamlessly scale computing resources without disruption or architectural changes. When devices are added to the Ethernet network, they are automatically clustered without complex setup.

Protect Service as Storage Dose

The KS2 series brings enterprise-class data protection beyond storage, safeguarding compute workloads with built-in features such as:

- **Snapshot** - Instant rollback and rapid recovery for persistent services
- **Rsync** - Reliable data replication across environments
- **QReplica** - Real-time node replication for high availability and failover readiness

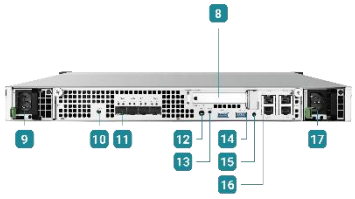
Enterprise-Grade Security from the Core

Powered by XInsight, the KS2 series ensures comprehensive protection from edge to core. Security features like WORM, SED, RBAC, and Windows ACL work together to defend against unauthorized access, data tampering, and physical theft. Combined with integrated backup tools, your services remain secure, compliant, and resilient—even under the most demanding conditions.

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Appearance





1. USB Port
2. Enclosure Status LED
3. Enclosure Access LED
4. Disk Drive Status LED
5. Disk Drive Power LED
6. UID (Unique Identifier) Button / LED
7. Enclosure Power Button / LED
8. Host Card Slot 1 (host card is an optional part)
9. Power Supply Unit 1
10. Reset to Factory Default Button
11. 10 GbE LAN Port
12. Console Port
13. Buzzer Mute Button
14. USB Port
15. UID (Unique Identifier) LED
16. 2.5 GbE LAN Port
17. Power Supply Unit 2

System Specification

Model Name	KS2204-8C
Architecture	Single controller
CPU	
Processor	Intel® Xeon® 8-core
Memory	
Memory Module Pre-installed	16 GB DDR4 ECC DIMM
Total Memory Slots	4
Memory Expandable up to	256 GB
Storage	
Drive Bays	3.5" Slot x 4 M.2 Slot x 2
Compatible Drive Type	3.5" SATA HDD & 2.5" SATA SSD 2.5" U.2 NVMe SSD M.2 NVMe SSD
Drive Interface	SATA (6 Gb/s) U.2 NVMe (PCIe Gen 3) M.2 NVMe (PCIe Gen 3)
Maximum Internal Raw Capacity	245 TB
Hot Swappable Drive	Yes (M.2 slot does not support hot plugging)
Connectivity Port	
PCIe Expansion	(Gen 4x8 Slot) x 1
Max. 2.5 GbE LAN Port	4 (onboard)
Max. 10 GbE LAN Port	6 (2 onboard)
Max. 25 GbE LAN Port	2
Expansion and External Port	
12 Gb/s SAS Wide Port	2 (option)
USB Port	3
Console Port	1
Software Specification	
Server OS	KSM
Cluster	Up to 8 nodes
RAID Type	0 / 1 / 5 / 6
Software Acceleration	SSD cache / Auto tiering / RDMA
Application Deployment	Docker / QComposer
Data Protection	Snapshot / Asynchronous / Synchronous (option)
Backup Service	Rsync
Management	XInsight / RESTful API / RBAC
Storage Support	CSI
Appearance	
Dimension (H x W x D) (mm)	44 x 438 x 515
Net Weight (kg)	9.1
Gross Weight (kg)	13.2
Others	
System Fan	2 pcs
Power Supply Unit	450 W x 2 (80 Plus Gold)
Power Input	100 - 240 VAC, 50/60 Hz
Power Consumption	155 W / 529 BTU
Certification	CE / FCC / BSMI
Standard Warranty	System: 3 years

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