



QSAN Converged 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—no CLI stress involved.

Scale for the Best Resilience

The KS2 series features a resilient scale-out architecture that supports cluster deployment of up to 8 nodes. This allows organizations to seamlessly expand compute resources as workloads grow—without disruption or architectural changes while appliance being added to the ethernet the appliance will be clustered automatically without complex setups.

Protect Service as Storage Dose

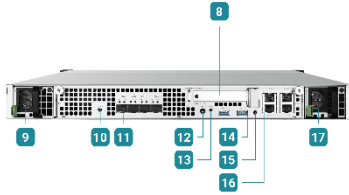
The KS2 series brings enterprise-class data protection beyond storage, safeguarding compute workloads with built-in features such as:

- **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.

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
Maximum Drive Bays with Expansion Unit	414
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)
Hot Swappable Drive	Yes (M.2 slot does not support hot plugging)
Connectivity Port	
PCIe Expansion	(Gen 4x8 Slot) x 1
2.5 GbE RJ45 LAN Port	4 (onboard)
10 GbE SFP+ LAN Port	4 (onboard) / 2 (option)
10 GbE RJ45 LAN Port	2 (option)
25 GbE SFP28 LAN Port	2 (option)
Expansion and External Port	
12 Gb/s SAS Wide Port	2 (option)
USB Port	1 (front) / 2 (rear)
Others	Console Port x 1
Software Specification	
Storage OS	KSM
RAID Type	0 / 1 / 5 / 6
Software Acceleration	SSD cache / Auto tiering / RDMA
Data Protection	Snapshot / Asynchronous / Synchronous (option)
Backup Service	Rsync
Management	RBAC / RESTful API
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 Platinum)
Power Input	100 - 240 VAC, 50/60 Hz
Power Consumption	155 W / 529 BTU
Certification	CE / FCC / BSMI
Standard Warranty	System: 3 years