

XCubeNAS

XN8012R

QSAN



Ultra-high Performance and Virtualization Ready

The Industry's first 2U hybrid NAS (12+4+2) with Intel® Xeon® E3 Quad-core processor provides native auto-tiering storage capability to fulfill the maximum performance and high-capacity demand for enterprises. With U.2 NVMe SSDs and up to 64GB memory capacity, the XN8012R's maximum sequential write performance is up to 4,716MB/s and 4K sequential IOPS is up to 359,790. This is the best choice for enterprise data storage applications, virtualization ready storage and data backup systems.

Product Features

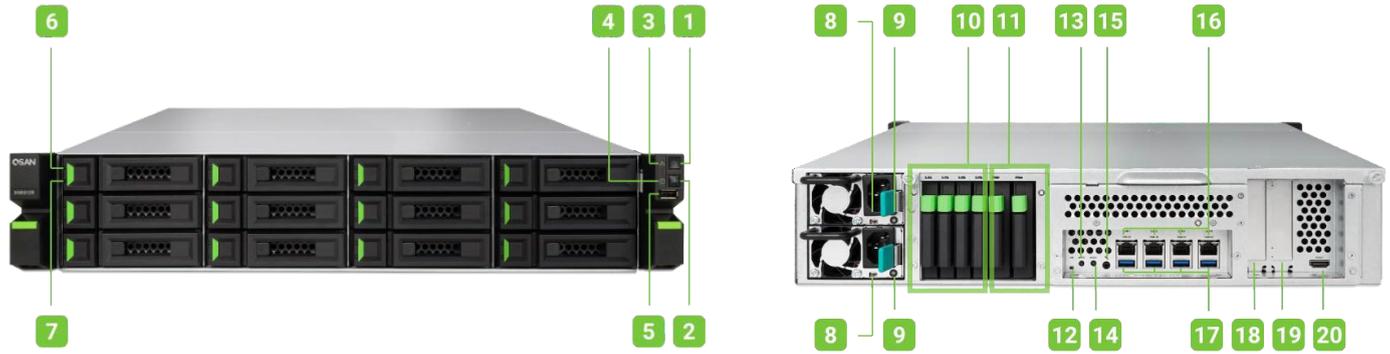
- With High performance and expansion by using 12Gb/s technology, maximum space up to 3.3PB.
- Unified Storage - Integrated storage system supports block and file storage simultaneously and following protocols, iSCSI, CIFS, NFS, FTP, and AFP.
- Universal and Efficient Data Backup - XMirror supports permission backup, disaster recovery and flexible protection between multiple NAS devices.
- KVM Built-in Hypervisor Manager: enabling user to create and manage virtual machines that run directly on the XCubeNAS and host multiple virtualized environments without the additional hardware investment.
- Comprehensive Data Security - Pool Military level encryption with AES-256, Write Once Read Many (WORM), Self-Encrypting Drive (SED).
- Thin Provision - Precision Restore and dynamically Space.
- Advanced Enterprise Storage Technology - Auto-Tiering, Inline Compression, Deduplication and Thin Provision.

Application areas

- IT Industry: File storage services, cloud storage services, near-line backup systems, secondary backup storage devices, disaster recovery solutions, virtualize host and storage devices.
- Government: Diskless workstation system, urban security monitoring system, agenda recording and playback system, digital file storage (digital collection), remote data backup center, cloud storage service, virtualized storage device.
- Education: Administrative system storage device, host and storage device virtualization, network storage service, security monitoring system, digital teaching system, library management system, computer classroom diskless workstation.
- Media Industry: Non-linear editing system, audio-visual editing system, online editing storage system, media database storage management, video on-demand system, content on-demand delivery system, wedding studio photo/video storage system.
- Finance & Insurance: Telemarketing recording system, policy image storage device, data storage system, Near-Line backup system, host virtualization application, development system storage device.
- Telecommunications industry: Online music play system, security monitoring system, customer service recording system, network storage service, Near-Line backup system, virtualization of host and storage devices.

Product Spec of XN8012R

Apperance



- | | | | |
|--|---|---|---|
| 1. Power Button/LED Indicator for Power Status | 2. Unique Identifier (UID) Button/LED Indicator | 3. System Access LED Indicator | 4. System Status LED Indicator |
| 5. USB 2.0 Port | 6. Disk Drive Power LED Indicator | 7. Disk Drive Power LED Indicator | 8. Power Supply Unit Power Port |
| 9. Power Supply Unit PSU Indicator and Beep Off Button | 10. SATA SSD Slot | 11. NVMe SSD Slot | 12. Unique Identifier (UID) LED Indicator |
| 13. Mute Button | 14. Reset Button | 15. Console Port | 16. Gigabit LAN Port |
| 17. USB 3.0 Port | 18. Additional PCIe Slot for Expansion (Gen3 x 8) | 19. Additional PCIe Slot for Expansion (Gen3 x 4) | 20. HDMI Port |

Hardware Spec

Architecture	All-in-one
CPU	
Processor	Intel® Xeon®64-bit Quad-Core 3.3GHz
Memory	
System Flash	8GB SATA DOM
Memory Module Pre-installed	8GB DDR4 U-DIMM
Total Memory Slots	4
Memory Expandable up to	64 GB
Storage	
Drive Bays	3.5" Slot x 12, 2.5" Slot x 6
Maximum Drive Bays with Expansion Unit	426
Compatible Drive Type	3.5 " SATA HDD, 2.5" SATA HDD, 2.5" SATA SSD, 2.5" NVMe SSD
Drive Interface	SATA 6Gb/s (backward compatible with SATA 3Gb/s)
Maximum Internal Raw Capacity	393TB
Maximum Raw Capacity with Expansion Units	8,553TB
Hot Swappable Drive	yes
External Port	
USB 2.0 Port	1 (Front)
USB 3.0 Port	4 (Rear)
HDMI Port	1
Others	Console Port x1
LAN Port	
1GbE RJ45 LAN Port	4 (Onboard)
10GbE RJ45 LAN Port	2 (Option: THBE10R2)
10GbE SFP+ LAN Port	2 (Option: XN-E1002)
Thunderbolt 3	2 (Option: XN-TB302)
Expansion Port	
12Gb/s SAS Wide Port	2 (Option: XN-S1202)
PCIe Expansion	
Gen3x8 Slot	1
Gen2x4 Slot	1

Appearance	
Dimension (H x W x D) (mm)	88.5 x 438 x 510
Chassis Form Factor	19" Rackmount 2U 12+6 Bay
Net Weight (kg)	13.5
Gross Weight (kg)	14.9
Others	
System Fan	60mm x 60mm x 3 pcs, 40mm x 40mm x 1 pcs
Replaceable System Fan	yes
Power Recovery	yes
Scheduled Power On/Off	yes
Wake on LAN/WAN	yes
Power Supply Unit / Adapter	250W x2
Redundant Power Supply	Yes
AC Input Power Voltage	100V-240V
Power Frequency	50-60 Hz, Single Phase
Power Consumption	332 W (Access), 179 W (HDD Hibernation)
British Thermal Unit	1132 BTU/hr (Access), 611 BTU/hr (HDD Hibernation)
LCM Support	yes
Environment Temperature	
Operating Temperature	0 to 40°C
Storage Temperature	-10°C to 50°C
Operating Relative Humidity	20% to 80% non-condensing
Non-operating Relative Humidity	10% to 90%
Certification	
	CE / EAC / SASO / RCM / VCCI / BSMI / FCC
Warranty	
Standard Warranty	3 years