

## Simple Unified Storage for SMB



### Enterprise-level Unified Storage for Business Environments

QSAN XN8012D is a simple, secure, scalable and affordable unified storage systems for SMB and enterprise. Enterprise can initially manage data efficiently, and scale out their architecture with expansion units as their business grows. It is an ideal solution for business to plans their budget smartly and grow with it.

#### Benefit

##### Simple

- Set up your system in 5 minutes, and instant usage by ZFS.
- Non-disruptive architecture enables maintenance and upgrades without performance impact.
- Support multiple protocols, is suitable for all kind of application.
- Get the latest feature without charge. Continuously updated firmware even over the warranty.

##### Enterprise-grade

- Protect against ransomware and cyber attack by WORM, SED and Pool encryption.
- XMirror can sync your data among branch office, build up enterprise private cloud.
- Built-in various enterprise feature help you to store your data more efficiency and save capacity.
- Built-in enterprise data services for all workloads

##### Scalable

- Support up to 420bays, you don't have to re-buy storage just for expansion.
- Scale-out everything instantly, includes generational upgrades.

#### Simple Deployment Quick Installation

When your XN8012D arrives, the entire installation process can complete within five minutes, allows the IT to complete storage infrastructure deployment effortlessly.

- **Just a few clicks**  
With the Instant RAID and Quick install, you can be instantly deployed with no initialization or synchronization phase and deliver storage service within 5 minutes.
- **Setup Storage Once in Place**  
Built-in 4 x 10GbE lan port and support multi protocol suitable for all kind of application. You don't need to spend any extra money after you bought XN8012D.
- **Easy to master**  
XN8012D is designed to release IT maintenance effort, SW/HW upgrade and maintenance can never be this easy.

#### Business Easy Expansion

Enterprises can make cost-effective planning in the initial stage of expansion. When the demand is getting larger, they can expand the hardware and capacity. And all this does not need to stop any services.

- **Non-disruptive upgrade**  
Data service keeps running during software and hardware upgrade  
Go with the simplest architecture in the beginning, expand later when necessary.
- **High scalability**  
Support up to 420 bays and 6 PB, Easy to expand the capacity without stopping service.
- **Beyond warranty**  
Get the latest feature without charge. Continuously updated firmware even over the warranty.

#### Efficiently data store, saving your wallet

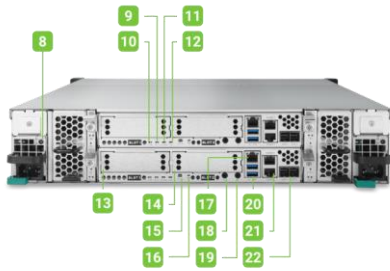
Your backup and archive size is becoming huge. Data efficiency is very import, and every bit counts!

- **Compression**  
Helping ITs to reduce the amount of storage you need to purchase and maintain.

## Appearance



1. Enclosure Power Button / LED
2. UID (Unique Identifier) Button / LED
3. Enclosure Access LED
4. Enclosure Status LED
5. USB Port
6. Disk Drive Power LED
7. Disk Drive Status LED



8. Power Supply Unit – PSU Indicator and Beep Off Button
9. Controller Status LED
10. Master / Slave LED (only for dual controllers)
11. Dirty Cache LED
12. UID (Unique Identifier) LED
13. Host Card Slot 1 (host card is an optional part)
14. Host Card Slot 2 (host card is an optional part)
15. Buzzer Mute Button
16. Reset to Factory Default Button
17. Management Port
18. Console Port
19. Service Port
20. USB Port
21. 10GbE iSCSI Port
22. 12Gb/s SAS Wide Port

## Hardware Spec

Architecture	Active-Active dual-controller
<b>CPU</b>	
CPU	Intel® Xeon® 64-bit Quad-Core (Also support 8 core model)
<b>Memory</b>	
System Flash	16GB USB DOM
Memory Module Pre-installed	16GB DDR4 ECC DIMM (per controller)
Memory Expandable up to	4 x 32 = 128GB (per controller)
<b>Storage</b>	
Drive Bays	3.5" Slot x 12
Maximum Drive Bays with Expansion Unit	420
Compatible Drive Type	3.5" SAS HDD / SAS SED HDD, 3.5" NL-SAS HDD / NL-SAS SED HDD, 2.5" SAS SSD / SAS SED SSD 2.5" SATA SSD / SATA SED SSD (*), 2.5" SAS HDD / SAS SED HDD, 2.5" NL-SAS HDD / NL-SAS SED HDD <small>(* In dual-controller system, 2.5" SATA HDD need 6G MUX board)</small>
Drive Interface	SAS 12Gb/s
Maximum Internal Raw Capacity	192TB
Maximum Raw Capacity with Expansion Units	6,720TB
Hot Swappable Drive	Yes
<b>Connective port</b>	
USB 2.0 Port	1 (Front)
USB 3.0 Port	2 (Rear)
Others	UPS Port x 1 · Controller port x 1
1GbE RJ45 LAN Port	1 (Onboard)
10GbE RJ45 LAN Port	2 (Onboard) / 2 iSCSI (Option : HQ-10G2T)
10GbE SFP+ LAN Port	4 iSCSI (Option : HQ-10G4S2)
25GbE SFP28 LAN Port	2 iSCSI (Option : RHCE25P2) (Will be launch in the 4th quarter of 2020)
16Gb SFP+ Fibre Channel	4 FCP (Option : HQ-16F4S2) / 2 FCP (Option : HQ-16F2S2) (Will be launch in the 4th quarter of 2020)
32Gb SFP28 Fibre Channel	2 FCP (Option : RHCF32P2) (Will be launch in the 4th quarter of 2020)
<b>Expansion Port</b>	
12Gb/s SAS Wide Port	2 (onboard)
PCIe Expansion	1 x Gen3x8, 1 x Gen2x4
<b>Appearance</b>	
Dimension (H x W x D) (mm)	88 x 438 x 515
Chassis Form Factor	19" Rackmount 3U12 bay
Net Weight (kg)	16.4
Gross Weight (kg)	18.8
<b>Memory Protection</b>	
Cache-to-Flash Module	Yes (Does not need Battery Backup Module)
<b>Others</b>	
System Fan	4 pcs(hot-swappable)
Power Recovery	Yes
Wake on LAN/WAN	Yes
Power Supply Unit / Adapter	770W/850W x 2 (80 PLUS Platinum)
Redundant Power Supply	Yes (hot-swappable)
AC Input Power Voltage	100V-240V
Power Frequency	50-60 Hz · Single Phase
Power Consumption	407W
British Thermal Unit	1,388BTU
LCM Support	Yes
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 · FCC · CCC · BSMI · VCCI · KCC
Standard warranty	3 years

