

ALTOS XS1212D

ALTOS|QSAN SAN XS1212D, 12Bay SAN storage is the most cost-effective SAN storage system for the SMB market, this storage system is based on the modular design with FRU (Field Replacement Unit) optimized. XS1212D is the perfect solution for the applications of surveillance and backup, fit to the market segment with limited capital expenditure, but require maximum efficiency.

Hybrid Storage

XS1212D integrates Intel processor, which is optimized for enterprise SAN and cloud storage along with native 12Gb SAS 3.0 technology. Each controller includes dual host cards, dual on-board 10GBase-T ports, one 1GbE Management port and dual 12Gb/s SAS wide ports (SFF-8644).

Dual-Active (Active/Active) Controller SAN System

XS1212D features a Dual-Active controller architecture that concurrently provide storage services in real time. This active-active architecture doubles the available host bandwidth and cache-hit ratio, this ensures maximum utilization of system resources and maximizes throughput.

Modular Design for Versatility & Scaled Performance

Each controller supports two host card slots for expanded connectivity and scaled performance. There are various types of optional host cards available to match the specific needed, including 16Gb FC, 10GbE iSCSI and 1GbE iSCSI. It also offers the flexibility to mix FC and iSCSI connectivity at the same system simultaneously. In this dual controller mode, the system can support up to 20ports of 10GbE iSCSI or 8ports of 16Gb FC connectivity. Users can connect multiple host servers directly to XS1212D without using FC switch or Ethernet switch.





CPU	Processor type Number of processors	Intel® D1508 Dual Processor 2 (1/controller)
On-board Devices	LAN	4 x 10GbE iSCSI RJ45 (2/Controller) 2 x 1GbE Management Port (1/Controller)
Memory	Memory (Default) Memory slot Memory type	8GB (4GB/Controller, option to upgrade to max 32GB) 4 DIMM slots (2 DIMM slot/Controller) DDR4-2400 ECC UDIMM
Expansion slots	SAS Optional Host Card (Slot 1, PCIe Gen3 x 8) Optional Host Card (Slot 2, PCIe Gen3 x 4, bandwidth limit 20Gb)	4 x 12Gb/s SAS SFF-8644 (2/Controller) <ul style="list-style-type: none"> ● 2 or 4 x 16Gb FC (SFP+) ● 4 x 10GbE iSCSI (SFP+) ● 2 X 10GbE iSCSI (RJ45) ● 4 x 1GbE iSCSI (RJ45) <ul style="list-style-type: none"> ● 2 or 4 x 16Gb FC (SFP+) ● 4 x 10GbE iSCSI (SFP+) ● 2 X 10GbE iSCSI (RJ45) ● 4 x 1GbE iSCSI (RJ45)
I/O ports	Front I/O ports Rear I/O ports	1 x USB 2.0 port <ul style="list-style-type: none"> ● 4 x 10GbE RJ45 ● 2 x 1GbE RJ45 Management Port ● 4 x 12Gb/s SAS (SFF-8644) ● 4 x USB 3.1 ports ● 2 x Console ports
Operating System	OS	Storage OS, SANOS (SAN Operating System) 64-bit Linux kernel & QSAN's proprietary RAID Engine
Drive Bays	Storage bays Memory Protection	12Bay Mix & Match 3.5" & 2.5" SAS, NL-SAS, SED HDD or 12Bay 2.5" SAS, SATA SSD ((thru 6Gb MUX board) Cache to Flash (Optional)
Power supply		850W 1+1 Redundant 80+ Platinum AC Input 100-127V 10A, 50-60Hz, 200-240V 5A, 50-60Hz DC Output: +12V 63.4A, +5VSB 2.0A
System cooling		2 x Hot Pluggable/Redundant Fan Modules
Form factor	Form factor Dimensions (D x W x H)	Rackmount 19" 438 x 88 x 515 (mm)
Software Features		<ul style="list-style-type: none"> ● Thin Provisioning - QThin ● SSD Cache - QCache (Available by Licensing) ● Auto Tiering - QTiering (Available by Licensing) ● Volume Snapshot - QSnap ● Local Volume Clone - Qclone ● Remove Replication - Qreplica ● QSOE 2.x (Storage Optimization Engine) ● Virtualization Integration
Certification	EMI	BSMI CE FCC RCM

Temperature	Operating Temperature	0 to 40° C
	Shipping Temperature	-10° C to 50° C
Relative Humidity	Operating Relativity Humidity	20% to 80% Non-Condensing
	Non-Operating Relative Humidity	10% to 90%

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Altos provides solutions and services to government, academia, cloud service providers, datacenter operators and enterprises.

