

# VAL-ISCSI-ADV-1002



## SYSTEM OVERVIEW

VALVUR Storage is a professional unified storage system with high flexibility, scalability and performance. It features with integrated multiple technical interfaces providing both front and back ends with flexible construction.

Through the integrated high-performance processors and the latest iSCSI 1Gbx6 host ports, the VAL-ISCSI-ADV-1002 supports high data transmission rates. Its powerful hardware engine, high scalability and user-friendly management interface makes the VAL-ISCSI-ADV-1002 the ideal choice for various small to medium size of applications such as database, file services, and media streaming.

- Dual Controller design
- Comprehensive and Efficient Management
- SAS technology (support mixture of SAS/SATA hard drives in enclosure)
- Multiple RAID Level and Stripe Size
- Multi-level MAID Technology
- Array Recovery Utility & RAID 6
- ASST - Active Streaming Stabilize Technology
- OKTT - One Key Tuning Technology
- Online RAID Expansion
- Online Volume Expansions
- Hard Disk Migration and Roaming
- 6 x 1Gbps iSCSI ports per controller

### High Performance

VAL-ISCSI-ADV-1002 provides advanced 4Gb FC, 12Gb SAS x 4 and 1Gb iSCSI x 12 for host connection and uses the state-of-arts PowerPC processor, which allows up to 1600MB/s throughput, providing great performance for the most heavy duty applications

### SBB2.0 Technology

SBB2.0 (StorageBridgeBay) improves storage interface standardization and create a common standard to support the high-energy components and high-density disk package, making the modules based on the SBB to improve interoperability. VAL-ISCSI-ADV-1002 using SBB2.0 Design, to strengthen the module common to reduce spare parts inventory, reduce service costs. Efficiently reduce maintenance costs and improve maintenance efforts. In addition, its transmission quality enhanced, high standard cooling requirements, so that use SBB2.0 of the VAL-ISCSI-ADV-1002 more stable and more reliable

# TECHNICAL SPECIFICATION

System	
Controller	Dual controller
RAID Level	RAID 0, 1, 5, 6,10. Automatic RAID rebuild
Bandwidth	1600MB/s
IOPS	200,000
Interface	6 x 1Gb iSCSI ports per controller
Management port	10/100Mb Ethernet, RS232
Storage controller	RISC AMCC 440SPe
Controller configuration	Single / Dual Active-Active controller
Cache memory	4GB (Standard) per controller, max. 16GB per controller
HDD quantity per enclosure	24 pcs
JBOD quantity per main unit	4 pcs
HDD quantity per system	120 pcs
Capacity / Form factor	300/600/900 GB /1.2TB/1.8TB SAS, 1/2/3/4 /6TB/8TB/10TB NL SAS
Maximum capacity	768 TB
Number of LUNs	1024
OS supported	MS Windows, Linux, IBM AIX, Mac OS, VMware
Dimensions	177mm(H) x482.6mm(W) x545mm(D) 4U EIA 19" rack mount 24kg ± 5% (not including HDD)

System	
Temperature (operating)	10°C - 35°C (working environment) -40°C - 70°C (non - working environment)
Relative humidity (operating)	20% - 80% non-condensing (working environment) 10% - 90% non-condensing (non-working environment)
Input voltage	100 - 240V AC
Input frequency	47 - 63Hz
Power supply module	1+1 550W Dual redundant, hot swappable
Cooling module	Dual redundant, hot swappable
Certification Compliance	CB, BSMI, RoHS, CCC,
(Extension Unit/ JBOD)	VAL-ADV-JBOD-24-J
HDD quantity per JBOD	24 pcs
JBOD quantity per main unit	4pcs
Dimensions	4U EIA 19" rack mount
Expansion interface	2 xSAS 3.0
Dimensions	177mm (H) x482.6mm (W) x545mm (D) 4U EIA 19" rack mount 20.8kg ± 5% (not including HDD)

## Multi-Level MAID Technology

VAL-ISCSI-ADV-1002 supports multi-class MAID (Massive Arrays of Idle Disks) technology. MAID will only start the hard disk when there is data access in order to save the energy. MAID technology can power saving 20 ~ 30%, also can reduce the frequency of access to extend the life of hard disk. It mainly use in Nearline Storage device especially for backup, archiving and etc.

## ASST (Active Streaming Stabilize Technology)

ASST (Active Streaming Stabilize Technology) allows the system to provide high-speed and stable performance. Through ASST, the system not only can smooth the transition between video streaming peaks and drops, it also optimize the data transferred the host block size and frequency, so that the delay jitter is minimized and transmission performance has remained stable. ASST very suitable for audio and video production and broadcast, which can effectively avoid the risk of dropped frames

## SERVICES AVAILABLE

Technical Support  
Installation and Setup  
Maintenance  
Application Support  
Hardware Support  
Guaranteed Warranty

