



AegisSAN V100

Designed for Backup, IT application & Surveillance



- 16G FC & 10GbE/GbE iSCSI interface
- Expandable over Peta-Byte raw capacity
- SSD Caching, up to x18 performance gain
- QiSOE 2.0, up to x1.6 IOPS
- Fast Rebuild, > 50% less rebuilding time
- 80 Plus Gold PSU, > 92% power efficiency

AegisSAN V100 Highlights:

Optimized Performance

AegisSAN V100 are optimized for demanding high-throughput applications. It can deliver more than 6,000MB/s for throughput requirements.

With QiSOE 2.0, AegisSAN V100 can deliver up to x1.6 IOPS for both iSCSI and Fibre Channel especially for small block size applications.

Utilize on-board 6x 1GbE iSCSI ports, plus optional 10GbE iSCSI or 16G Fibre Channel cards for the best cost-performance ratio.

Hardware RAID, redundant & modular hardware components, multi-path and loadbalancing design to ensure high reliability service.

Better Power Efficiency

AegisSAN V100 is equipped with 80 Plus Gold power supplies to achieve greater than 92% energy efficiency as well as peak reduction and improved power quality.

Inbuilt with Intel low-power processor (14W) to balance the performance and power consumption.

Benefits to IT Budget and Applications

SSD Caching can boost application performance up to 18x times.

Snapshots and Remote Replications provide all-rounded data protection and simplify disaster recovery.

New Fast Rebuild solution can reduce more than 50% RAID5/6 rebuilding time.

Bringing Enterprise storage features in but still meet SMB IT budget as the best cost-efficiency storage for backup, archive, virtualization and surveillance.

Maximized for Scalability

Connecting with expansion unit J100, AegisSAN V100 can scale up to 192 drives for 1PB raw capacities.

With Thin Provisioning, it is flexible to add SAS or SATA drives when they are actually needed.

Simplified Management

Java-based QCentral – a centralized management software to quick access all Qsan storage units plus intuitive user interface, makes storage management easier.

AegisSAN V100

		AegisSAN V100			JBOD
		V100-P10	V100-P20	V100-F30	J100
Hardware					
RAID Controller	Single controller				Single controller
Host Channels	-	10GbE ports x2 (SFP+)	16Gb Fibre Channel ports x2		6Gb SAS port x1 (In)
	1GbE ports x6	1GbE ports x 6	1GbE ports x 6		6Gb SAS port x1 (Out)
	1GbE management port x1				-
Processor	Intel Briarwood S1200 Series				LSI
Memory	4GB DDR3 ECC, up to 8GB				-
Hard Drive Interface	6Gb/s SAS/SATA/SSD (3.5" and 2.5")				6Gb/s SAS/SATA/SSD (3.5" and 2.5")
Expansion Enclosure	J100 6Gb/s SAS series				J100 6Gb/s SAS series
Max. No. of Hard Drive	192				-
Form Factor	4U24, 3U16				4U24, 3U16
Dimension	19" Rackmount				19" Rackmount
	4U: 446.0mm x 549.7mm x 176.0mm (W x D x H)				4U: 446.0 x 549.7 x 176.0mm
	3U: 446.0mm x 549.7mm x 130.0mm (W x D x H)				3U: 446.0 x 549.7 x 130.0mm
Weight	4U: 34Kg (Diskless); 3U: 30Kg (Diskless)				3U: 30Kg (Diskless) 4U: 34Kg (Diskless)
Power Supply	550W x2 (80 Plus Gold)				550W x2 (80 Plus Gold)
Fan Module	pluggable/redundant fan x3				pluggable/redundant fan x3
Features Highlights					
iSCSI	QoSOE (Qsan iSCSI hardware offload engine) for performance Jumbo frame, CHAP authentication, Virtual LAN, iSNS support Up to 32 multiple nodes support Up to 128 hosts support Up to 256 sessions		QoSOE for performance Jumbo frame, CHAP authentication, Virtual LAN, iSNS support Up to 32 multiple nodes support Up to 128 hosts support Up to 256 sessions		-
Fibre Channel	-		QoSOE for performance FCP-2 & FCP-3 support Auto detect speed and topology Topology support : Point-to-point, FC-AL, Fabric Up to 64 hosts support Up to 512 sessions		-
RAID & Volume	RAID level 0, 1, 0+1, 3, 5, 6, 10, 30, 50, 60, JBOD, N-way mirror Up to 2048 logical volume (LUN) Up to 64 hard drives per RAID group One logical volume can be shared by as many as 16 hosts Global and dedicated hot spare Write-through or write-back cache policy Online volume expansion, Instant RAID volume availability Auto volume rebuilding, On-line volume migration without system down time QThin (Thin Provisioning) SSD Caching (option, up to 2.4TB) Fast Rebuild				-
High Availability	Multi-path & load-balancing support (Microsoft MPIO, MC/S, Trunking, LACP)				-
Advanced Data Protection	QSnap writable snapshot, max no. 1024 (Snapshot) QReplica 2.0 (Async Remote Replication) Volume cloning Microsoft Windows Volume Shadow Copy Services (VSS) Online disk roaming Instant volume restoration Network UPS				-
Management	QCentral Java-based centralized management software, Serial console, SSH telnet, iSNS, S.E.S., HTTP Web UI, Secured Web (HTTPS), LED indicators, S.M.A.R.T., Wake-on-LAN, Wizard				QCentral, S.E.S.
Networking	DHCP, Static IP, NTP, Trunking, LACP, VLAN, Jumbo frame				-
Notification	Email; SNMP trap; Browser pop-up windows; Syslog; Windows Messenger				-
OS Support	Windows XP/7, Windows Server 2003 R2, 2008, 2008 R2 & 2012 Red Hat Enterprise Linux 5/6; Solaris 10/11; Mac OS 10.6 or later				-
Virtualization	Vmware (VAAI); Citrix; Hyper-V				-
Green	80 Plus Gold energy-efficient power supplies Wake-on-LAN to turn on or wake up the system only when necessary MAID to increase storage density and decreased electrical power Auto disk spin down				80 Plus Gold PSU Auto disk spin down
Compliance & Warranty					
Warranty	System: 3 years				
Safety & EMI	RoHS, CE, FCC, BSMI, C-Tick, LVD, CB				
Requirements					
AC Input	90-264V ~ 10A-5A 550W with PFC (Auto Switching), 50/60Hz				
Operating Temperature	0 to 40°C				
Relative Humidity	5% to 95% non-condensing				

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