AegisSAN V100 Series

Designed for Surveillance, Archiving & Backup Applications

- 10GbE/1GbE iSCSI & 16G Fibre Channel SAN
- Enterprise-class Data Protection Designs
- Innovative Hardware Offload Engines
- Low Power-consumption Processor Adopted
- 80 Plus Gold Energy-efficient Power Supplies
- Redundant PSU & FAN Design
- Virtualization Technologies Supported

AegisSAN V100 Series Overview

The Trend of IP-based Surveillance

Owing to the digital format in which video is recorded, IP-based surveillance provides a number of advantages over that based on older CCTV technology. These advantages include improved search capabilities, higher video quality with no degradation over time, the ability to simultaneously record live video and play back previously recorded footage, and the ability to compress video to reduce storage requirements.

The network connectivity of IP cameras enables improved remote access, ease of distribution, storage flexibility, and integration with communications systems such as email. As a result of the clear superiority of IP surveillance systems over CCTV-based solutions, the former is rapidly supplanting the latter for virtually all security applications.

Ultra Price/Performance

Qsan has long-standing relationships with leading security vendors, working closely with them as a contract manufacturer. Through close collaboration, Qsan has developed a thorough understanding of the surveillance market and the storage requirements of security applications.

AegisSAN V100 is the SAN storage series designed for surveillance and delivers ultra price/performance for entry-level options. The series supports up to 200 IP cameras and offers easy-to-use management tools to do central management for all the surveillance systems. AegisSAN V100 disk array provides great scalability supporting up to 192 hard drives and its enterprise-grade performance enables the system to handle the surveillance workload satisfactorily.

Backup & Archive

AegisSAN V100 system also fits into backup and archiving

applications. The disk array has achieved Veeam and Acronis verifications of their backup and recovery software, enabling data loss avoidance and high-speed recovery to mitigate risk and dramatically reduce capital and operational costs for enterprises and SMBs.

Hardware Offload Engine

AegisSAN V100 system for both iSCSI and FC models features hardware offload engine, the proprietary QiSOE technology, which adopts a dedicated CPU core to process the packets. With hardware offload engine enabled, the read/write throughput can be dramatically boosted as well as IOPS performance.

Data Protection Features

AegisSAN V100 disk array provides comprehensive enterprise-grade data protection features. It has multiple RAID level options, QSnap the writable snapshot function, volume cloning, online disk roaming and instant volume restoration to protect the all stored data. All the features are built-in to AegisSAN V100 models. On the hardware level, the redundant power supplies and fan modules allows good availability and manageability to the system.

Value Add-ons

AegisSAN V100 system supports comprehensive virtualization technologies including VMware VAAI, Citrix and Hyper-V. In addition, it's equipped with 80 plus gold PSU to enhance the power efficiency.

Available Models

The available products of the controller-based AegisSAN V100 series include the AegisSAN V100-P20 with two 10GbE iSCSI ports, V100-P10 with six 1GbE ports and V100-F30 with two 16G FC ports. Each model has 3U 16-bay and 4U 24-bay form factor options.

	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 4U: 446.0mm x 549.7mm x 176.0mm (W x D x H) 3U: 446.0mm x 549.7mm x 130.0mm (W x D x H)			19" Rackmount 4U: 446.0 x 549.7 x 176.0mm 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	QiSOE (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		QiSOE 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	-		QiSOE 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℃			
Relative Humidity	5% to 95% non-condensing			