

VN-SAN STORAGE AREA NETWORK DEVICE



- Enterprise-class, iSCSI storage device can be located locally or remotely via network connection
- Scalable storage with units with 18 or 48 drive bays
- Energy-efficient idle mode conserves power, but provides near-instantaneous access to data when needed
- Ideal solution for primary or backup storage
- Preconfigured from factory to support up to 4 ViconNet DVRs or NVRs
- Hot-swap failed drives in an instant with no data loss

Vicon® VN-SAN Storage Area Network devices provide a high-density storage solution that can be used for primary and/or backup data storage. Using the iSCSI standard, the VN-SAN units may be located long distances from the ViconNet® NVRs or DVRs over a standard Ethernet connection. No special interface devices or cabling are required, the units operate over standard CAT-5E or CAT-6

Scalable, Flexible and Secure

The VN-SAN is offered in 18 and 48-bay systems. Total storage capacity is from 15 to 81 TB of usable storage. It is designed to ensure no single point-of-failure with multipathing support; dual redundant hot-swappable active components assures that a failed drive can be hot-swapped with a good drive for future protection.

The iSCSI standard has no distance limitations so your data storage can be located at a safe, secure location miles away from the recording site. Each VN-SAN unit has dual-redundant power supplies and battery backup providing additional peace-of-mind.

Easily Installed, Configured and Maintained

The VN-SAN units are rack-mountable and require 2 RU (18-bay units) or 4 RU (48-bay unit) vertical space. The units are preconfigured at the factory for RAID 5 storage and set up to support up to 4 NVRs or DVRs each. No special power requirements are necessary; each unit operates with 115/230 VAC input power. The units incorporate advanced features such as dual RAID engines, a high performance cache mirroring between dual controllers, and active/active failover to deliver uncompromising availability and reliability.

Once configured, minimal maintenance is required. The advanced mechanical design of the units provides superior cooling for optimal thermal operation and removes vibration from the chassis. Built-in system management software provides an intuitive interface for the operator. The units are operating system independent, no special software drivers or server-based management software is required. In the event of a failure, an alarm is generated notifying you of the failure. If the system has pooled spare drives set up, a pooled drive is automatically rebuilt and replaces the failed drive.

Energy Savings

The VN-SAN units employ AutoMAID® technology. AutoMAID (Massive Array of Idle Disks) allows the units to place their disk drives into an idle state to conserve energy, yet provide near-instantaneous access to data.

Operational

Usable Storage Capacity:	18-bay (9 bays used): Up to 15 TB. 18-bay (full): Up to 57 TB. 48-bay: Up to 81 TB.
Supported RAID Levels:	5 and 6.
Alarms:	Audible alarm signal when active device on system fails or critical operating parameters of unit are violated.
User Controls:	Browser-based GUI interface used to set up, maintain and monitor system.
Cache:	18-Bay: Up to 2 GB per controller. 48-Bay: Up to 4 GB per controller.
iSCSI Transfer Rate:	1 GB/sec per iSCSI port.
Input/Output Connectors:	4 iSCSI 1 GB ports. RJ-45 Ethernet port. RS-232 9-pin serial port connector.
Status Indicators:	LEDs for controller, fan module, power supply modules, and drive trays.
Certifications:	FCC Class A; CE; UL; CB.

Environmental

Operating Temperature:	41° to 86°F (5° to 30°C).
Humidity:	20 to 80% relative, non-condensing.

Warranty

3 years parts and labor.

Electrical

Input Voltage:	115/230 VAC, 50/60 Hz with auto-switching/ auto-ranging.
Current:	18-bay: 10.4 A @ 115 VAC; 5.2 A @ 230 VAC. 48-bay: 14 A @ 115 VAC; 7 A @ 230 VAC.
Power Consumption:	18-bay: 1200 W. 48-bay: 1600 W.
Heat Output:	18-bay: 4200 btu/hour. 48-bay: 5600 btu/hour.
Power Connector:	Standard 3-conductor female socket.
Power Supplies:	Dual-redundant hot-swappable internal power supplies. Battery backup.

Note: Vicon requires the use of uninterruptible power supply systems (UPS) to prevent voltage fluctuations that can affect operation and cause damage to the equipment. Failure to comply voids the warranty.

Mechanical

Application:	Indoor.
Mounting:	Standard 19 in. (483 mm) rack mount and stackable. Mounting brackets and rails included.
Dimensions:	18-bay: Height: 3.9 in. (88.1 mm) 2 RU. Width: 17 in. (432 mm). Length: 34.5 in. (876 mm). 48-Bay: Height: 6.93 in. (176 mm) 4U. Width: 17 in. (432 mm). Length: 35.92 in. (913 mm).
Weight (without drives):	18-bay: 101 lb (45.7 kg), approximately. 48-bay: 191 lb (86.45 kg), approximately.

Ordering Information

Description	Model Number
18-bay ViconNet SAN Storage unit. Includes (9) 2 TB drives, 15 TB usable storage, configured for RAID 5.	VN-SAN-9-2000R5
18-bay ViconNet SAN Storage unit. Includes (18) 2 TB drives, 28.5 TB usable storage, configured for RAID 5.	VN-SAN-18-2000R5
18-bay ViconNet SAN Storage unit. Includes (18) 3 TB drives, 42 TB usable storage, configured for RAID 5.	VN-SAN-18-3000R5
18-bay ViconNet SAN Storage unit. Includes (18) 4 TB drives, 57 TB usable storage, configured for RAID 5.	VN-SAN-18-4000R5
48-bay ViconNet SAN Storage unit. Includes (48) 2 TB drives, 81 TB usable storage, configured for RAID 5.	VN-SAN-48-2000R5

The above units can be configured for RAID6; usable storage will be reduced. Contact Vicon Sales for information on the RAID6 models.

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