

## VX3060-V2 Network Storage Datasheet

### VX3060-V2



## Overview

VX3060-V2, with high performance, high reliability, high available, high density, high scalability and high usability, is a new-generation unified network storage developed especially for video surveillance. Integrating a range of features such as iSCSI storage, RAID processing, failover protection, permanent data protection and cutting-edge disk management technology, this device offers concurrent block access performance (iSCSI), and thus to be a comprehensive solution to storage in video surveillance.

## Features

- High Available
- Failover
  - When the controller detects the fault of the other controller, it automatically takes over the works of fault controller.
- Mirror write cache
  - Between controllers, write caches switch data by  $\times 16$  PCIe3.0, to ensure the integrity of the user data after failover
- Dynamic migration of virtual IP
  - When the controller takes over the fault controller, the virtual IP of fault controller will migrate to the controller to ensure the continuity of the service
- Intelligent RAID Engine (ISET)
  - Convenient RAID application
    - The RAID can be used immediately after being created. The system automatically initializes at the background.
  - Free from the impact of abnormal RAID status
    - The performance of storage devices usually deteriorates in the case of RAID degradation. The Intelligent RAID Engine technology can be a shield against the impact of abnormal RAID status on services to ensure the normal operation of front-end monitoring services.
- Free from the influence of concurrent reading/writing
  - The IOPS multiplies when concurrent reading and writing occurs on a disk. The Intelligent RAID Engine technology can be a shield

against the impact of video recording and playback to ensure the normal operation of front-end services.

- Cache algorithms for videos
- Optimized read/write cache management algorithm, greatly improving access performance and extending the lifespan of HDDs.
- SSD Cache
- The use of SSD Cache can be greatly improving access performance of hot data
- Dynamic adjustment of reconstruction speed
- The system adjusts the reconstruction speed automatically based on the system conditions to reduce the impact of RAID reconstruction on services and to improve the effective utilization of system resources.
- Super Error Correction (SEC)
- Automatic disk inspection and repair
- The unique hard disk fault-tolerant processing algorithm ensures service continuity even when multiple disk errors exist in the array. Fault sectors can also be automatically repaired.
- Fast disk reconstruction
- Data can be copied to a hot spare disk within a short period. This substantially reduces the read I/O of disk, speeds up the reconstruction, and avoids data loss.
- RAID superblock backup
- Array composition is not affected when data in a certain sector cannot be read. In addition, damaged data can be repaired by using the backup sector to improve array reliability.
- Data Protection
- Data safe box
- Online embedded UPS protection and data safe box are provided to ensure secure writing of cache data into data safe box at unexpected power-off without data loss.
- Disk pre-copying
- Pre-detection of failure is implemented to transfer data from risky disk to the hot spare disk.
- Disk protection
- Once a disk error is detected, the disk repair process would automatically start. Data in the failed disk is recalculated from other disk in the array to remap the bad blocks of disk.
- Link protection
- Link aggregation and dynamic failover ensure the read/write bandwidth without affecting the availability of data channels.
- Three Dimensional Linear Expansion
- Seamless expansion based on LUN resources
- 4-port 4\*12 Gbps Mini SAS HD interfaces for back-end expansion.
- High-Quality Hardware Design
- High density
- The innovative enclosure with 4U height that holds up to 60disks, is space-saving and applicable to the standard rack-mounted scenarios.
- Carrier-class applications with high availability
- The application of Intel 64-bit server platform architecture, 64-bit multi-core processor, ECC DDR4 memory, and 64-bit storage OS ensure excellent service continuity by providing stable and reliable data access. The system availability reaches up to 99.999%.
- Watchdog
- The system would be forced into the security mode in case of a failure. High-speed cache data is stored in the data safe box. Storage media in the data safe box can roam to the new system together with the array disk. The system can be recovered securely and conveniently.
- Dual BIOS

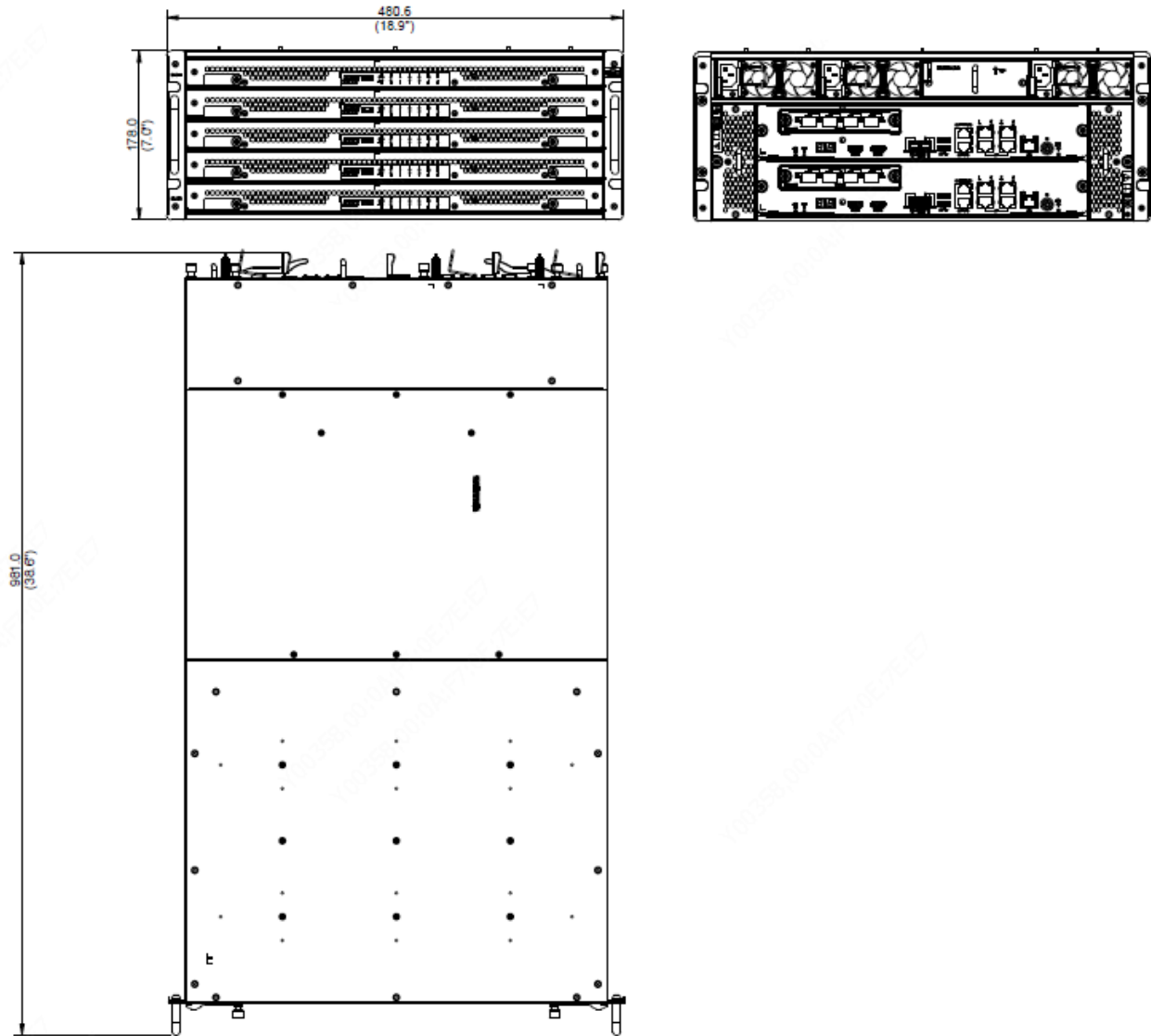
- When the active BIOS fails to start, the system automatically detects the failure and switches to the standby BIOS. This ensures reliable system startup and BIOS update.
- Redundant power supplies
- The hot-swappable power supply is designed in redundancy and load balancing mode. Automatic power switching in case of failure and online replacement of failed power supply are supported.
- Overload protection
- The mechanism of hardware overload protection is provided. When the temperature reaches the protection threshold, the system automatically turns off to protect the disk data.
- When CPU and memory malfunction or reach the protection threshold, the system automatically sends alarm messages through mails, short messages, and SNMP Trap.
- Power protection
- Disk powered on sequentially during system startup, protection from impulse current.
- Multistage fan speed and energy saving
- Fans with multistage speed are configured in the hot-swappable frame in redundancy mode. System power consumption can be balanced intelligently with heat dissipation calculation to ensure low power consumption and stable operation of the system.
- Convenient maintenance
- Functions as indicator alarm, mail alarm, SNMP Trap alarm and SMS alarm are supported.
- Automatic startup after unexpected power-off, and timed startup and shutdown are also available.
- The environmental monitoring function allows the monitoring of the utilization of network interface and CPU, the querying of the access of LUN and RAID, as well as the management of device voltage and temperature. In this way, administrators can comprehensively inspect system operation condition and reasonably allocate resources to maximize the device performance.
- Green Technology and Energy Conservation
- Selected power supplies with high PF and conversion efficiency
- Intel CPU with cutting-edge process technology and advanced architecture
- Particularly selected chips with low power consumption for service model of video surveillance
- Unique simplified design of board
- Reduced component type and quantity, under the affirmatory premise of the function, performance and reliability
- Multistage fan speed
- Several temperature sensors are configured and built inside to intelligently control the fan speed.
- Hibernation for unoccupied disks
- Intelligent cache design
- Reasonably sort and buffer the read/write data by intelligent algorithm reduce the disk read/write times, and reduce the hard disk power consumption.

## Specifications

Model	VX3060-V2
Module	
Controller number	2
CPU	Intel 64-bit multi-core processor
Memory	16GB, up to 128 GB
Power module	default 2
Battery module	default 2
Fan module	2
Power Supply	100 V – 127 V/ 200 V – 240 V AC, 60 Hz/50 Hz













Power Consumption	Controller enclosure :< 1000W (fully configured)
Weight	Controller enclosure Fully configured: <96kg
Dimension	Controller enclosure: 178mm×482mm×981mm Note: for cabinet with 1200mm depth or above
Authentication certificate	CE, FCC, CB, RoHS, WEEE
Operating temperature	5 °C~40°C / 41 °F ~ 104 °F, (10°C~ 35°C / 50 °F ~ 95°F Recommended)
<b>Performance</b>	
IPSAN Mode	512-channel (1024Mbps) recording, 51-channel (102Mbps) playback
Video Mode	512-channel (1024Mbps) recording, 512-channel (1024Mbps) forwarding, 51-channel (102Mbps) playback
<b>Interface</b>	
Front-end Service Interface	10-port 10/100/1000 Mbps Ethernet interface 4 port 10/100/1000 Mbps Ethernet interface module (optional) 2-port 10 GE SFP+ interface module (optional) 4-port 10 GE SFP+ interface module (optional)
Back-end Expansion Interface	2*2-port 4*12 Gbps Mini SAS HD
PCIe slot	2
HDMI	4
USB	4
Serial port	4
HDD slot	60
<b>Function</b>	
RAID	JBOD and RAID 0,1,10, 5, 50,6 Dedicated hot-spare disk and global hot-spare disk
Protocol	ISCSI
Host Connection	Up to 1024
Maximum Number of Logic Resources	1024
Alarm	Indicator alarm, mail alarm, SNMP Trap alarm, and short message alarm

# Dimensions

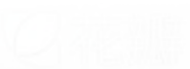





# Accessories






<b>LIS-NI-HDD Authorization-IN</b> Hdd Authorization Host License	<b>NI-HD-D-60</b> 60 Disk Slots Single/Dual Control Storage Hdd Kit	<b>FB-IN4XG-NB</b> 4 Port 10Gb Ethernet Interface Module
		

<p><b>FB-IN2XG-NB</b></p> <p>2 Port 10Gb Ethernet Interface Module</p>	<p><b>FB-IN4GA-NB</b></p> <p>4 Port Gigabit Ethernet Interface Module</p>	<p><b>NI-MEM32G-DDR4-NB</b></p> <p>32GB Memory Package(UDIMM DDR4,32G*1)</p>
		
<p><b>NI-MEM16G-DDR4-NB</b></p> <p>16GB Memory Package(UDIMM DDR4,16G*1)</p>	<p><b>NI-MEM4G-DDR4-NB</b></p> <p>4GB Memory Package(UDIMM DDR4,4G*1)</p>	<p><b>NI-MEM16G-DDR4-ECC-NB</b></p> <p>16GB Memory Package(UDIMM DDR4 ECC,16G*1)</p>
		
<p><b>NI-MEM8G-DDR4-ECC-NB</b></p> <p>8GB Memory Package(UDIMM DDR4 ECC,8G*1)</p>	<p><b>NI-MEM4G-DDR4-ECC-NB</b></p> <p>4GB Memory Package(UDIMM DDR4 ECC,4G*1)</p>	<p><b>NI-HD6000V-A-D-ST-01</b></p> <p>60 Disk Slots Single And Dual Control Storage,Integrative Surveillance SATA Hard Disk(Seagate 6TB)</p>
		
<p><b>NI-HD8000V-A-D-ST-01</b></p> <p>60 Disk Slots Single And Dual Control Storage,Integrative Surveillance SATA Hard Disk(Seagate 8TB)</p>	<p><b>NI-HD010TV-A-D-ST</b></p> <p>UNV 60 Disk Slots Single And Dual Control Storage Integrative Surveillance SATA Hard Disk(Seagate 10TB)</p>	<p><b>NI-HD012TV-A-D-ST-01</b></p> <p>UNV 60 Disk Slots Single and Dual Control Storage Integrative Surveillance SATA Hard Disk(Seagate 12TB)</p>
		

<p><b>NI-HD014TV-A-D-ST-01</b> UNV 60 Disk Slots Single and Dual Control Storage Integrative Surveillance SATA Hard Disk(Seagate 14TB)</p>	<p><b>NI-HD016TV-A-D-ST-01</b> UNV 60 Disk Slots Single and Dual Control Storage Integrative Surveillance SATA Hard Disk(Seagate 16TB)</p>	<p><b>NI-HD018TV-A-D-ST-01</b> UNV 60 Disk Slots Single and Dual Control Storage Integrative Surveillance SATA Hard Disk(Seagate 18TB)</p>
		
<p><b>NI-HD6000V-A-D-WD-01</b> 60 Disk Slots Single And Dual Control Storage,Integrative Surveillance SATA Hard Disk(WD 6TB)</p>	<p><b>NI-HD8000V-A-D-WD-01</b> 60 Disk Slots Single And Dual Control Storage,Integrative Surveillance SATA Hard Disk(WD 8TB)</p>	<p><b>NI-HD010TV-A-D-WD</b> UNV 60 Disk Slots Single And Dual Control Storage Integrative Surveillance SATA Hard Disk(WD 10TB)</p>
		
<p><b>NI-HD012TV-A-D-WD-01</b> UNV 60 Disk Slots Single and Dual Control Storage Integrative Surveillance SATA Hard Disk(WD 12TB)</p>	<p><b>NI-HD014TV-A-D-WD-01</b> UNV 60 Disk Slots Single and Dual Control Storage Integrative Surveillance SATA Hard Disk(WD 14TB)</p>	<p><b>NI-HD018TV-A-D-WD-01</b> UNV 60 Disk Slots Single and Dual Control Storage Integrative Surveillance SATA Hard Disk(WD 18TB)</p>
		
<p><b>CELL-LI4600</b> Dual Lithium Battery Module</p>	<p><b>BAT-LA5800</b> Lead-acid Battery Module</p>	<p><b>NI-HD6000E-A-D-ST-01</b> 60 Disk Slots Single And Dual Control Storage,Integrative Enterprise SATA Hard Disk(Seagate 6TB)</p>
		



<p><b>NI-HD8000E-A-D-ST-01</b> 60 Disk Slots Single And Dual Control Storage,Integrative Enterprise SATA Hard Disk(Seagate 8TB)</p>	<p><b>NI-HD010TE-A-D-ST</b> UNV 60 Disk Slots Single And Dual Control Storage Integrative Enterprise SATA Hard Disk(Seagate 10TB)</p>	<p><b>NI-HD012TE-A-D-ST-01</b> UNV 60 Disk Slots Single and Dual Control Storage Integrative Enterprise SATA Hard Disk(Seagate 12TB)</p>
		
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<p><b>NI-HD020TE-A-D-ST-01</b> UNV 60 Disk Slots Single and Dual Control Storage Integrative Enterprise SATA Hard Disk(Seagate 20TB)</p>	<p><b>NI-HD6000E-N-D-ST-01</b> 60 Disk Slots Single And Dual Control Storage,Integrative Enterprise NL SAS Hard Disk(Seagate 6TB)</p>	<p><b>NI-HD8000E-N-D-ST-01</b> 60 Disk Slots Single And Dual Control Storage,Integrative Enterprise NL SAS Hard Disk(Seagate 8TB)</p>
		
<p><b>NI-HD6000E-A-D-WD-01</b> 60 Disk Slots Single And Dual Control Storage,Integrative Enterprise SATA Hard Disk(WD 6TB)</p>	<p><b>NI-HD8000E-A-D-WD-01</b> 60 Disk Slots Single And Dual Control Storage,Integrative Enterprise SATA Hard Disk(WD 8TB)</p>	<p><b>NI-HD010TE-A-D-WD</b> UNV 60 Disk Slots Single And Dual Control Storage Integrative Enterprise SATA Hard Disk(WD 10TB)</p>
		

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<p><b>NI-HD018TE-A-D-WD-01</b> UNV 60 Disk Slots Single and Dual Control Storage Integrative Enterprise SATA Hard Disk(WD 18TB)</p>	<p><b>NI-HD020TE-A-D-WD-01</b> UNV 60 Disk Slots Single and Dual Control Storage Integrative Enterprise SATA Hard Disk(WD 20TB)</p>	<p><b>DE3160-V2</b> 60 Disk Slots Network Storage Disk Enclosure Unit</p>
		

## Ordering Info

Product Model	Description
VX3060-V2	60 Disk Slots Network Storage

# Unlimited New View

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