

Network Storage Datasheet **VX1612-C**



Overview

VX1612-C, with high performance, high reliability, low power consumption and high usability, is an economy type unified network storage developed especially for video surveillance. Integrating a range of features such as video data management, iSCSI storage, RAID processing, 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

- 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.
- 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

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- 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.
- · High-Quality Hardware Design
- High density
- · Carrier-class applications with high availability
- The application of Intel 64-bit server platform architecture, 64-bit multi-core processor, ECC DDR3 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.

Specifications

Model	NI-VX1612-C
Module	
Controller number	1
CPU	Intel 64-bit multi-core processor
Memory	4GB
Power module	default 1, optional 1
Battery module	default 1
Power Supply	100 V – 127 V/ 200 V – 240 V AC, 60 Hz/50 Hz
Power Consumption	<160W (fully configured)
Weight	Fully configured: <21kg
Dimension	Controller enclosure:89mm X 481.6mm X583mm
Authentication certificate	CE, FCC, UL, RoHS, WEEE
Operating temperature	5 °C~40°C / 41 °F ~ 104 °F, (10°C~ 35°C / 50 °F ~ 95°F Recommended)
Performance	
Video Mode	160-channel(320Mbps) recording,

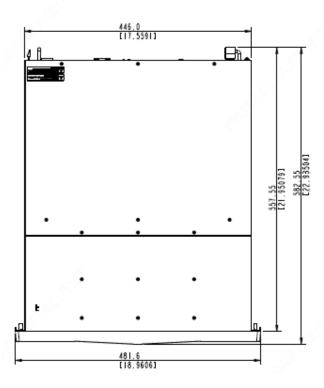


	80-channel(160Mbps) forwording,	
	16-channel(32Mbps)playback	
Interface		
Front-end Service Interface	3 10/100/1000 Mbps Ethernet interface	
	4 port 10/100/1000 Mbps Ethernet interface module (optional)	
	2-port 10 GE SFP+ interface module (optional)	
	4-port 10 GE SFP+ interface module (optional)	
PCIe slot	1	
VGA	1	
USB	2	
Serial port	1	
HDD slot	12	
Function		
RAID	JBOD and RAID 0,1, 5, 6	
	Dedicated hot-spare disk and global hot-spare disk	
Protocol	iscsi	
Host Connection	Up to 1024	
Maximum Number of Logic	1024	
Resources		
Alarm	Indicator alarm, mail alarm, SNMP Trap alarm, and short message alarm	



Dimensions







Accessories

NI-HD4000E-A-S-ST

UNV 12/16/24/36 Disk Slots Single Control Storage,Enterprise SATA Hard Disk(Seagate 4TB)

NI-HD6000E-A-S-ST

UNV 12/16/24/36 Disk Slots Single Control Storage,Enterprise SATA Hard Disk(Seagate 6TB)

NI-HD8000E-A-S-ST

UNV 12/16/24/36 Disk Slots Single Control Storage,Enterprise SATA Hard Disk(Seagate 8TB)









NI-HD010TE-A-S-ST
UNV 12/16/24/36 Disk Slots Single Control
Storage Integrative Enterprise SATA Hard
Disk(Seagate 10TB)



NI-HD014TE-A-S-ST
UNV 12/16/24/36 Disk Slots Single Control
Storage Integrative Enterprise SATA Hard
Disk(Seagate 14TB)



NI-HD016TE-A-S-ST
UNV 12/16/24/36 Disk Slots Single Control
Storage,Integrative Enterprise SATA Hard
Disk(Seagate 16TB)

NI-HD018TE-A-S-ST UNV 12/16/24/36 Disk Slots Single Control Storage,Integrative Enterprise SATA Hard Disk(Seagate 18TB)

NI-HD020TE-A-S-ST
UNV 12/16/24/36 Disk Slots Single Control
Storage,Integrative Enterprise SATA Hard
Disk(Seagate 20TB)







NI-HD6000E-A-S-WD UNV 12/16/24/36 Disk Slots Single Control Storage,Integrative Enterprise SATA Hard Disk(WD 6TB)

NI-HD8000E-A-S-WD
UNV 12/16/24/36 Disk Slots Single Control
Storage,Integrative Enterprise SATA Hard
Disk(WD 8TB)

NI-HD010TE-A-S-WD UNV 12/16/24/36 Disk Slots Single Control Storage Integrative Enterprise SATA Hard Disk(WD 10TB)







NI-HD012TE-A-S-WD UNV 12/16/24/36 Disk Slots Single Control Storage Integrative Enterprise SATA Hard Disk(WD 12TB)

NI-HD014TE-A-S-WD UNV 12/16/24/36 Disk Slots Single Control Storage Integrative Enterprise SATA Hard Disk(WD 14TB)

NI-HD016TE-A-S-WD UNV 12/16/24/36 Disk Slots Single Control Storage,Integrative Enterprise SATA Hard Disk(WD 16TB)









NI-HD018TE-A-S-WD UNV 12/16/24/36 Disk Slots Single Control Storage,Integrative Enterprise SATA Hard Disk(WD 18TB)

NI-HD020TE-A-S-WD
UNV 12/16/24/36 Disk Slots Single Control
Storage,Integrative Enterprise SATA Hard
Disk(WD 20TB)

NI-HD4000E-A-S-TB UNV 12-36 Disk Slots Single Control Storage Integrative Enterprise SATA Hard Disk(Toshiba 4TB)



NI-HD8000E-A-S-TB UNV 12-36 Disk Slots Single Control Storage Integrative Enterprise SATA Hard Disk(Toshiba 8TB)

NI-HD6000E-A-S-TB UNV 12-36 Disk Slots Single Control Storage Integrative Enterprise SATA Hard Disk(Toshiba 6TB)

4 Port Gigabit Ethernet Interface Module

FB-IN4GA-NB







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Storage,Surveillance SATA Hard
Disk(Seagate 6TB)

NI-HD8000V-A-S-ST
UNV 12/16/24/36 Disk Slots Single Control
Storage,Surveillance SATA Hard
Disk(Seagate 8TB)







NI-HD010TV-A-S-ST
UNV 12/16/24/36 Disk Slots Single Control
Storage Integrative Surveillance SATA
Hard Disk(Seagate 10TB)

NI-HD012TV-A-S-ST
UNV 12/16/24/36 Disk Slots Single Control
Storage Integrative Surveillance SATA
Hard Disk(Seagate 12TB)

NI-HD014TV-A-S-ST
UNV 12/16/24/36 Disk Slots Single Control
Storage Integrative Surveillance SATA
Hard Disk(Seagate 14TB)









NI-HD016TV-A-S-ST
UNV 12/16/24/36 Disk Slots Single Control
Storage,Integrative Surveillance SATA
Hard Disk(Seagate 16TB)

NI-HD018TV-A-S-ST
UNV 12/16/24/36 Disk Slots Single Control
Storage,Integrative Surveillance SATA
Hard Disk(Seagate 18TB)

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UNV 12/16/24/36 Disk Slots Single Control
Storage,Integrative Surveillance SATA
Hard Disk(WD 6TB)

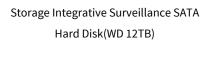




NI-HD012TV-A-S-WD UNV 12/16/24/36 Disk Slots Single Control

NI-HD8000V-A-S-WD
UNV 12/16/24/36 Disk Slots Single Control
Storage,Integrative Surveillance SATA
Hard Disk(WD 8TB)

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Storage Integrative Surveillance SATA
Hard Disk(WD 10TB)







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300W Power Module of Network Storage

PWR-AC300W-NB







Ordering Info

Product Model	Description
NI-VX1612-C	12 HDD Single Control Network Storage

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