

# Network Storage Datasheet

## VX1624-C



## Overview

VX1624-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

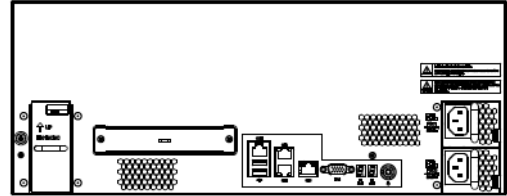
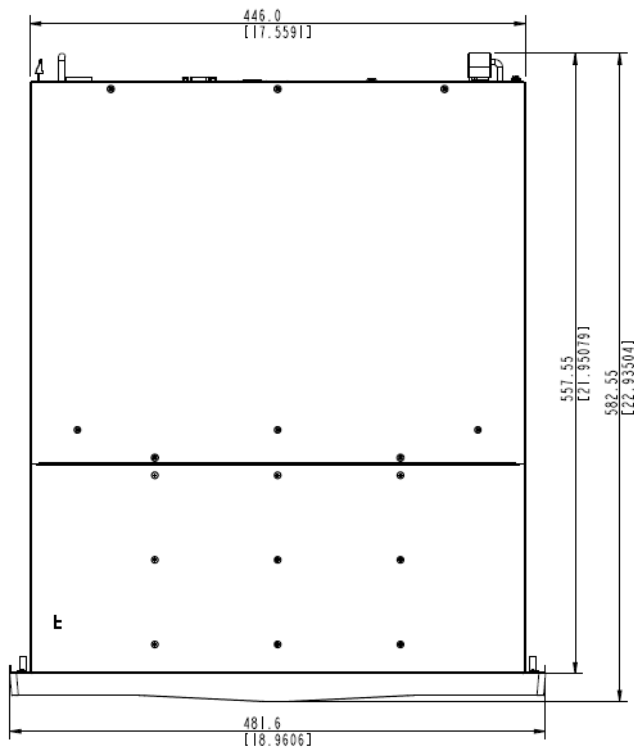
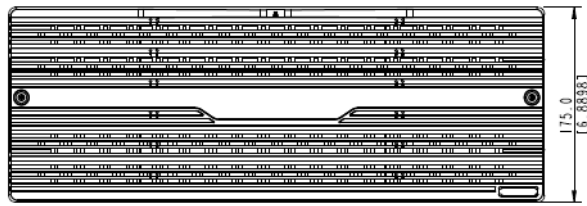
- The unique hard disk fault-tolerant processing algorithm ensures service continuity even when multiple disk errors exist in the array. Fault sectors can also be automatically repaired.
- Fast disk reconstruction
- Data can be copied to a hot spare disk within a short period. This substantially reduces 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
- The innovative enclosure with 4U height that holds up to 48 disks, is space-saving.
- 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-VX1624-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          | < 280 W (fully configured)  |
| Weight                     | Fully configured: < 32kg  |
| Dimension                  | Controller enclosure: 175.0mm×481.6mm×583.0mm                       |
| 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                        | 320-channel(640Mbps) recording,<br>160-channel(320Mbps) forwarding,32-channel(64Mbps)playback   |
| Interface                         |   |
| Front-end Service Interface       | 3 10/100/1000 Mbps Ethernet interface<br>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                          | 24  |
| Function                          |   |
| RAID                              | JBOD and RAID 0,1, 5, 6<br>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

### 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-HD012TE-A-S-ST

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



## 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  
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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

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Disk(Toshiba 6TB)



FB-IN4GA-NB

4 Port Gigabit Ethernet Interface Module



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Disk(Seagate 4TB)



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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)



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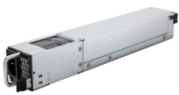
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Hard Disk(WD 18TB)



PWR-650A-DC-NB

650W AC Power Module



# Ordering Info

| Product Model | Description                   |
|---------------|-------------------------------|
| NI-VX1624-C   | 24 HDD Network Storage Device |

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