

Network Storage Datasheet

VX1648-C



Overview

VX1648-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

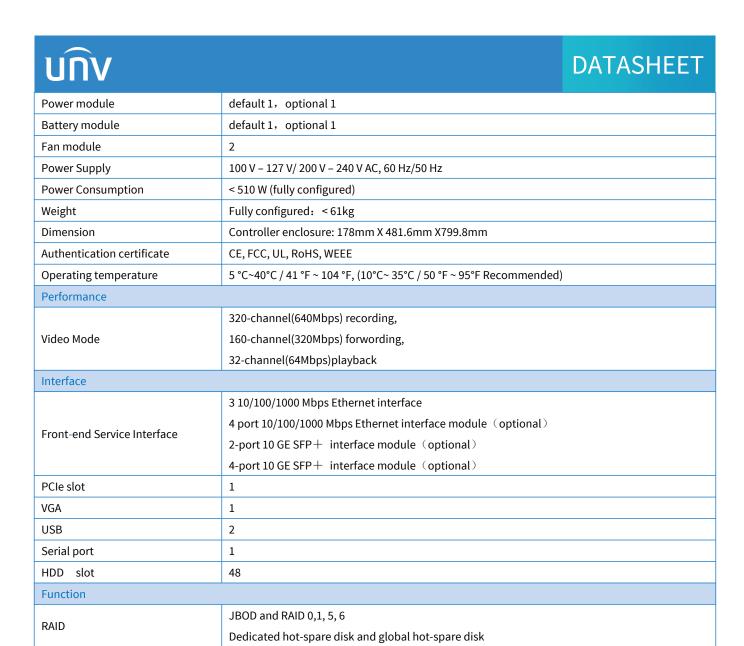


against the impact of video recording and playback to ensure the normal operation of front-end services.

- 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-VX1648-C
Module	
Controller number	1
CPU	Intel 64-bit multi-core processor
Memory	4GB



Indicator alarm, mail alarm, SNMP Trap alarm, and short message alarm

Protocol

Resources Alarm

Host Connection

Maximum Number of Logic

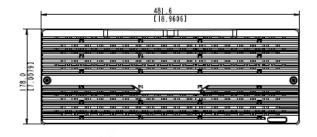
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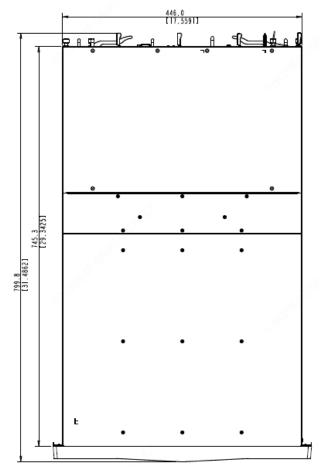
1024

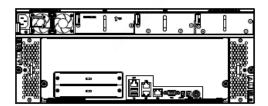
Up to 1024



Dimensions







Accessories

NI-HD4000E-A-S-ST-01 UNV 48 Disk Slots Single Control $Storage, Enterprise\ SATA\ Hard\ Disk(Seagate\ Storage, Enterprise\ SATA\ Hard\ Disk(Seagate\ Storage)$ 4TB*2)

NI-HD6000E-A-S-ST-01 UNV 48 Disk Slots Single Control 6TB*2)

NI-HD8000E-A-S-ST-01 UNV 48 Disk Slots Single Control Storage,Enterprise SATA Hard Disk(Seagate 8TB*2)









DATASHEET

ND-HD010TE-A-S-ST
UNV 48 Disk Slots Single Control Storage
Integrative Enterprise SATA Hard
Disk(Seagate 10TB*2)

ND-HD012TE-A-S-ST
UNV 48 Disk Slots Single Control Storage
Integrative Enterprise SATA Hard
Disk(Seagate 12TB*2)

ND-HD014TE-A-S-ST
UNV 48 Disk Slots Single Control Storage
Integrative Enterprise SATA Hard
Disk(Seagate 14TB*2)



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ND-HD016TE-A-S-ST
UNV 48 Disk Slots Single Control Storage
Integrative Enterprise SATA Hard
Disk(Seagate 16TB*2)

ND-HD018TE-A-S-ST
UNV 48 Disk Slots Single Control Storage
Integrative Enterprise SATA Hard
Disk(Seagate 18TB*2)

ND-HD020TE-A-S-ST
UNV 48 Disk Slots Single Control Storage
Integrative Enterprise SATA Hard
Disk(Seagate 20TB*2)



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FB-IN4GA-NB

4 Port Gigabit Ethernet Interface Module

NI-HD4000V-A-S-ST-01 UNV 48 Disk Slots Single Control Storage,Surveillance SATA Hard Disk(Seagate 4TB*2) NI-HD6000V-A-S-ST-01 UNV 48 Disk Slots Single Control Storage,Surveillance SATA Hard Disk(Seagate 6TB*2)



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NI-HD8000V-A-S-ST-01 UNV 48 Disk Slots Single Control Storage,Surveillance SATA Hard Disk(Seagate 8TB*2) ND-HD010TV-A-S-ST
UNV 48 Disk Slots Single Control Storage
Integrative Surveillance SATA Hard
Disk(Seagate 10TB*2)

ND-HD012TV-A-S-ST
UNV 48 Disk Slots Single Control Storage
Integrative Surveillance SATA Hard
Disk(Seagate 12TB*2)





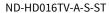






ND-HD014TV-A-S-ST

UNV 48 Disk Slots Single Control Storage
Integrative Surveillance SATA Hard
Disk(Seagate 14TB*2)



UNV 48 Disk Slots Single Control Storage
Integrative Surveillance SATA Hard
Disk(Seagate 16TB*2)

ND-HD018TV-A-S-ST

UNV 48 Disk Slots Single Control Storage
Integrative Surveillance SATA Hard
Disk(Seagate 18TB*2)



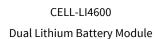


BAT-LA5800



PWR-DPS700W-NB

700W Power Module of Network Storage Lead-acid Battery Module









Ordering Info

Product Model	Description
NI-VX1648-C	48 HDD Single Control Network Storage

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