## 64 Gbps Host Connectivity

Netstor's PCIe RAID series allows PCI Express ' .0 bus from motherboard to be equipped with adapter cards with external PCIe ×8 data cable connected. PCIe ' .0 ×8 delivers *( Gbps data transfer rate, Y][ \ h times faster than 8Gb/s Fibre Channel. With such high data transfer rate, the PCIe RAID series is capable of any speed critical tasks such as video content creation, HD streaming or any other data intensive applications.
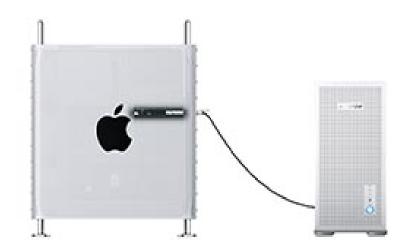
# Desktop 16 bay PCI Express to
# SAS/SATA JBOD

» Stylish desktop 16 bay storage enclosure
» Host interface up to Â l ÁGbps bandwidth
» Backplane design for up to sixteen(16) 2.5" or 3.5" SAS/SATA FGG/Î Gbps drives
» Environmental monitoring for FAN failure and over temperature
» LED indicators for HDD power,activity and failure
» Best enclosure ventilation with ultra-quiet design for noise-sensitive environments

## Specifications

| Model | NS780G⁴; ' |
|---|---|
| Host Interface | External PCI-Express H0 x8 |
| HDD Interface | SAS/SATA FGⅢ Gbps |
| | Up to Î l Gbps |
| No. of Disk(s) | Up to 16 of 2.5/ 3.5-inch |
| RAID Level | Requir^• a ÜŒÐÀ¦¦ÁPÓCŒ±à¢À¢¿supporting internal 16 port |
| LED for HDD | Blue - Busy (HDD Accessing) indicator ；Red - HDD failure |
| LED Display for Enclosure | 1. Global HDD LED<br>    Flash Blue - HDD access; Red - HDD failure ; Flash Purple - HDD reduilding<br>2. TEMP LED<br>    Green - TEMP normal; Red -over 50°C<br>3. FAN LED<br>    Green - FAN normal; Red - FAN failure |
| Material | Aluminum housing with solid metal structure |
| Power Supply | Í 00W Ùą * ¦^Á¿ÙW<br>Input: 90 – 230 VAC 50- 60 Hz<br>Output: +5V and +12V DC |
| Cooling | Front: Two 120x120x25 mm cooling fans<br>Rear:  Two 120x120x25 mm cooling fans |
| Alarm | Buzzer beeping for fan failure or over temperature (over 50°C) occurs |
| Dimension | 450 (D) x 175.8 (W) x 374 (H) mm<br>17.7 (D) x 6.9 (W) x 14.7 (H) inch |
| O.S. support | OS Independent  (OS will be provided from the PCIe RAID control card manufacturer) |
| Host Requirement | One PCIe H0 x8 / x16 sloc |
| Operating Temperature | 5 to 40°C  (41 to 104°F) |

## Overview

With the PCI Express  3.0 ×8 interface and the flexible SAS/SATA backplane solution compatible with SAS/SATA 12G/6Gbps HDDs, the stylish Netstor's external 16-bay desktop storage NS780S features easy installation and up to 64 Gbps fast data transfer rate experiences. Designed ultra-quiet, the hard drives inside NS780S can still be kept cooling. The real-time environmental monitoring with the front fan, TEMP, global HDD LEDs and the built-in buzzer alarm always allows users to know the status of the environment. In addition, the host RAID HBA incorporated inside the NS780S enables the 16-bay storage to provide RAID protection with the highest performance.

## Fully Applies to Video Editing Environments

Through the fast data transfer rate and the RAID-level data protection given by NS780S, the 16-bay desktop storage can achieve up to 64 Gbps in  reading and writing. Absolutely meeting the modern demands of high-definition video editing in uncompressed , K (8192×4320), 4K (4096×2160), HD (1920×1080), and 3D animation. As NS780S-G3 is populated with the 16 TB HDDs, the storage can be up to 256 TB in total raw capacity that saves up to 55 hours of uncompressed 10-bit 4K video, and can easily handle the uncompressed , K, ( K, 10-bit 1080 4:4:4 HD, ProRes 422, uncompressed 8-bit 1080 HD, DV, HDV, and DVCPRO video with the high-speed data transfer rate.

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