

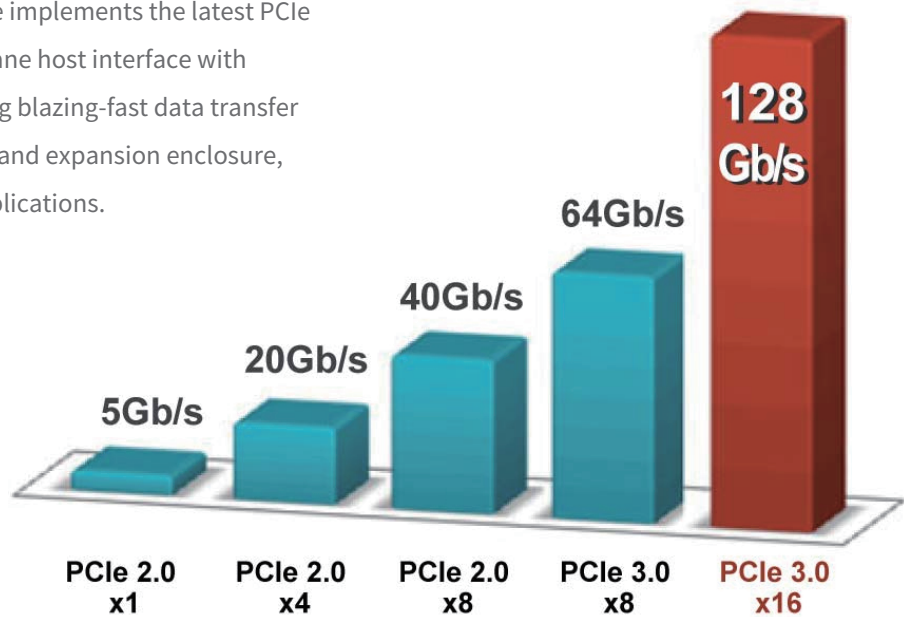
# NA255A

Performance Desktop PCIe 3.0 x16 (128Gbps) upstream port  
PCI-Express expansion enclosure particularly design for  
GPU cards (Available up to 4\* double width PCIe Gen3 slots)



# 128Gbps Bandwidth – PCIe Gen3 x16

The Netstor NA255A GPU enclosure implements the latest PCIe 3.0 technology and PCIe Gen3 16-lane host interface with throughput 8Gbps per lane, offering blazing-fast data transfer rates up to 128Gbps between host and expansion enclosure, dedicated for GPU-accelerated applications.



## Up to 4 Dual-Width GPU Cards

The GPU chassis is designed to have 4 PCIe x16 slots (x8 electrical) <sup>1</sup> on NA255A backplane supporting up to 4 double-width PCIe Gen3 GPU cards, or single-slot PCIe cards. In addition, the enclosure can accommodate all combinations of PCIe 3.0 ×1, ×4, ×8 and ×16 GPU/PCIe cards for every application with backward compatibility for Gen2 cards to work with host, server or workstation in areas such as HPC, telecom, and data centers.



<sup>1</sup> Netstor is dedicated to providing high C/P value GPU enclosure solution. According to graphics experts' test, there will be only 1% GPU performance difference when GPU card is installed in between PCIe x8 and x16 electrical. Please refer to [AnandTech](#) and [TechPowerUp](#).

# Great Sufficient Powering

## Dedicated 1200W PSU for GPU Application

Newest high-end or enthusiast GPU cards generally require high power wattage for work; considering the hi-power requirement aspect, Netstor has considerately planned a dedicated, high-efficient 1200W power supply unit in the GPU enclosure to allow up to 4 high-performing graphics cards to process with top reliability and stability.

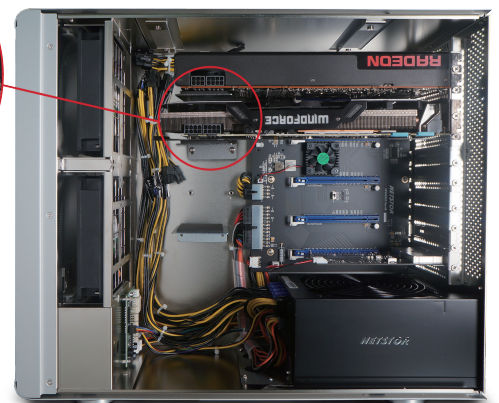
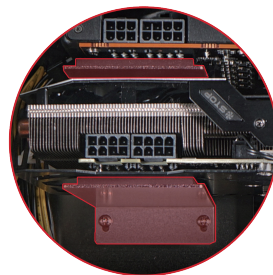
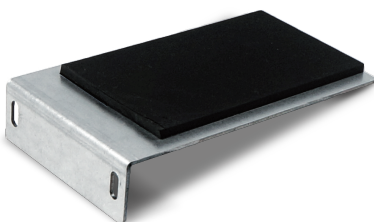
## Supplementary 6+2 pin PCI-E Power Cables

Netstor NA255A GPU enclosure has been thoughtfully designed to provide extra PCI-E power cables to meet each GPU card's supplementary power requirement. Furthermore, any combinations of 6-pin and 8-pin PCI-E power connectors on every graphics card are supported by NA255A.



# Extra Graphics Card Holders

In view of some high-performance GPU card with card length up to 30 cm or so, due to card's heavier weight and longer length, a special graphics card holder has been deliberately designed close to each PCIe slot for holding the large, heavy GPU card thoroughly and reliably within the NA255A enclosure.



# High-Performance Computing



## Computational Finance

GPU acceleration from Netstor NA265A offers financial service organizations the capability to speed up their business processing and provide better analytics. High-end GPUs within NA265A allow complicated risk calculations at the trader level to run in seconds, allowing real-time risk to be business as usual. Value at Risk, Counterparty Risk, and Initial and Lifetime Margining calculations are the types of calculations benefiting from NA265A GPU processing.



## Data Science

Increasing number of data scientists are using multiple high-end graphics cards in Netstor GPU enclosure for large data analytics to make better and real-time business decisions. Typical application case in big data analytics includes machine learning, deep learning, search, and sorting.



## Medical Imaging

Medical imaging takes the advantage of multi-GPU computing to get acceleration. Common use case in medical imaging covers accelerating Advanced MRI Reconstruction and Computed Tomography (CT) Reconstruction. The use of multiple high-end graphics card with Netstor GPU enclosure in this field is matured and there have been many such applications in the medical area.

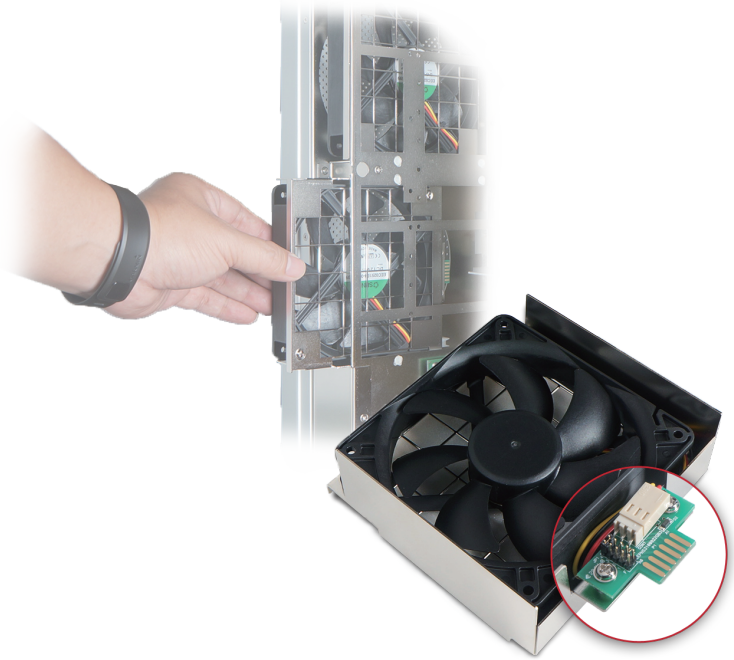


## Numerical Analytics

Professionals can use specialized tools such as MATLAB, Mathematica, and LabView...etc. through the utilization of multi graphics cards in Netstor GPU enclosure for accelerating the numerical analytics computing. Reliable statistics show computing capability of multi-GPU is more than ten times faster than CPU alone.

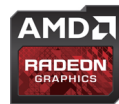
# Convenient Adjustable Fan Speeds

NA255A is equipped with two front large 12x12 cm cooling fan modules with each fan in support of 75 CFM, providing best airflow ventilation to enclosure for most excellent heat dissipation ever, and ensuring graphics cards within chassis can run long term without any high temp concern. Moreover, the fan speed of each cooling fan can be adjusted manually according to GPUs application situation within NA255A GPU chassis.



# Perfect Graphics Cards Compatibility

The Nvidia and AMD GPU cards that are compatible and work greatly with Netstor NA255A enclosure include Nvidia GeForce 10 / 900 series, Quadro P6000 / M6000 series and AMD Radeon RX, R9 series, FirePro W9100 / 9000 series.



RTX 2080Ti *	Quadro RTX 8000 *	RX 5700 XT	WX 9100
RTX 2070	Quadro RTX 6000 *	RX 5700	WX 7100
TITAN V	Quadro RTX 5000	RX 5600 XT	WX 5100
TITAN X (Pascal)	GV100	RX 5600	W9100
GTX 1080Ti	GP100	Radeon VII	W9000
GTX 1080	P6000	RX 590	W8100
GTX TITAN X	M6000	RX 580	W8000

\* Note: Requested Model NA255A-1500 (Power Supply provides 1500W for up to 4 GPU cards)

# Specifications

Form Factor	Desktop	
Host Interface	Up to 128Gb/s external PCIe 3.0 x16	
No. of Slot	4* PCI Express 3.0 x8 (x16 connector)	
Card Length Available	Supports single or double width, full length,full height PCI Express Cards	
LED Display for Enclosure	Power-On LED - Blue FAN normal – green; Fan failure – Red TEMP normal – green; TEMP Over 55°C – red	
Cooling	Front: two 120x120x25 mm cooling fans 75 CFM each fan @ full speed	
Alarm	Buzzer beeping for fan failure or over temperature (over 55°C) occurs	
Material	Solid metal structure with aluminum housing	
Power Supply	<b>Model : NA255A-XGPU</b> Universal Single 1200W (High-Efficiency & Low Noise) Input: 90~230 VAC/50-60 HZ 12V @ 100A (Note: 1300W peak power @ 12 seconds)	<b>Model : NA255A-1500</b> Universal Single 1500W (High-Efficiency & Low Noise) Input: 90~230 VAC/50-60 HZ 12V @ 120A (Note: 1600W peak power @ 12 seconds)
Dimension	450 (D) x 175.8 (W) x 374 (H) mm 17.7 (D) x 6.9 (W) x 14.7 (H) inch	
Weight	12.5 Kgs (Including external cables)	
O.S. support	OS Independent	
Host Requirement	One PCIe 3.0 x16 slot and system has sufficient PCIe resources Note: 1. The tower MacPro under 10.9 Mavericks and 10.10 Yosemite only supports up to 2 nVidia GPU cards. 2. Now the tower MacPro under 10.11 El Capitan is able to support up to 3 nVidia GPU cards again.	
Package Content	Enclosure x 1 PCIe 3.0 x16 host adapter card x 1 PCIe 3.0 x8 cable(1.5 meter) x 2 Power Cord x 1	

# Accessories

[NA255A-XGPU](#)

Desktop PCIe Gen3 Expansion Enclosure, **1200W Single** Power Supply with extra 4\* PCIe power connectors 6+2 pin & 4\* PCIe 6 pin for up to 4 double width GPU cards, with one PCIe Gen3 x16 host adapter and two PCIe x8 cables

[NA255A-1500](#)

Desktop PCIe Gen3 Expansion Enclosure, **1500W Single** Supply with extra 8\* PCIe power connectors 6+2 pin for up to 4 double width GPU cards, with one PCIe Gen3 x16 host adapter and two PCIe x8 cables

[NP970AG3-H](#)

Extra PCIe Gen3 x16 Host Adapter(full height & half Length)

[AAML6815](#)

Extra PCIe 3.0 x8 cable length in 1.5 meter