

# CASE STUDY

DELIVERING SMOOTH, HIGH-VELOCITY VIDEO WORKFLOWS

## EXECUTIVE SUMMARY

A Bangkok-based creative agency producing branded videos for social media and corporate clients struggled with slow file access and frequent NAS bottlenecks during 4K editing.

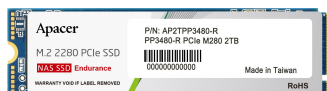
Multiple editors working simultaneously caused lags, risking deadlines and data integrity. By upgrading to Apacer NAS SSDs, the agency achieved faster editing, seamless collaboration, and reliable storage—allowing every project to be delivered on time without compromise.

## CHALLENGES

- **Workflow Bottlenecks:** Long file transfers slowed editing and review cycles.
- **Multi-User Slowdowns:** Simultaneous access caused NAS performance drops.
- **Data Risks:** Consumer-grade drives failed under heavy workloads.
- **Downtime:** Frequent replacements disrupted ongoing projects.

## APACER SOLUTION

**PP3480-R M.2 PCIe Gen3 x4 SSD**  
(Up to 2TB)



## RESULTS

### 01 Fast Editing

Low latency significantly reduced file access and rendering times, allowing creative teams to work more efficiently.

### 02 Smooth Collaboration

Multiple editors can work on high-resolution projects simultaneously without any lag or interruptions.

### 03 Data Protection

Proven durability safeguards critical and high-value projects from data loss.

### 04 Lower Maintenance

High durability extended SSD lifespan minimized IT interventions and can be a little longer.

# CASE STUDY

## ENABLING RELIABLE TEAM COLLABORATION ON NAS SSD

### EXECUTIVE SUMMARY

A Tokyo-based marketing firm managing large volumes of campaign materials, graphic designs, and client deliverables depended on its NAS for daily operations. With multiple team members accessing files simultaneously, their HDD-based system often slowed to a crawl, delaying deadlines and frustrating staff. Occasional power outages also risked data corruption.

By upgrading to Apacer NAS SSDs, the firm unlocked high-speed, stable, and secure file sharing—supporting smooth teamwork, protecting valuable assets, and reducing IT maintenance costs.

### CHALLENGES

- **Slow Multi-User Access:** File transfers and opening large assets were sluggish under load.
- **Drive Wear:** Heavy workloads shortened the lifespan of consumer drives.
- **Data Vulnerability:** Power losses increased the risk of file corruption.
- **IT Overhead:** Frequent replacements consumed time and budget.

### APACER SOLUTION



**PB4480-R M.2 PCIE GEN4 x4 SSD**  
(Up to 4TB)

### RESULTS

#### 01 Boosted Productivity

Faster file access improved overall workflow efficiency.

#### 02 Stable Performance

No slowdowns during peak collaborative work.

#### 03 Data Security

Reduced risks of corruption during unexpected outages.

#### 04 Lower IT Costs

Durable SSDs reduced the frequency of replacements and repairs.



# CASE STUDY

ENSURING SEAMLESS, ALWAYS-ON MEDIA ACCESS

## EXECUTIVE SUMMARY

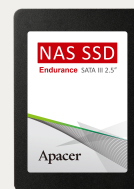
In Hong Kong, a tech-savvy household had built a personal NAS library containing family photos, videos, and music. As the collection grew, accessing high-resolution content became increasingly slow, and streaming would often buffer when multiple family members used the system at once. Occasional hard drive failures threatened to erase irreplaceable memories.

To safeguard their media and restore smooth performance, the family switched to Apacer NAS SSDs, gaining instant access, uninterrupted streaming, and long-term data protection—ensuring that every cherished moment remained accessible for years to come.

## CHALLENGES

- **Slow Access:** Loading large photo albums and 4K videos took too long.
- **Streaming Lag:** Multiple streams caused buffering and playback interruptions.
- **Data Loss Risks:** Aging HDDs were prone to failures that could destroy personal files.
- **Noise Disruption:** HDDs generate noticeable noise, distracting in quiet spaces like retail, hospitals, and offices.

## APACER SOLUTION



**PPSS25-R SATA III SSD**  
(Up to 2TB)

## RESULTS

### 01 Lag-Free Streaming

Smooth playback even when multiple devices streamed at once.

### 02 High Speed Access

Instant navigation of large image and video libraries.

### 03 Data Security

Endurance and LDPC protect precious memories.

### 04 Quiet & Efficient

Lower noise and power consumption than HDDs.

## Tailored Specifically for **NAS** Systems



### PPSS25-R/PP3480-R/PB4480-R NAS SSDs

Apacer's NAS SSDs are tailored for **modern audio-visual creators and small and medium businesses (SMBs)**, providing the high-speed, stable, and secure storage for today's demanding workflows. Featuring advanced 3D TLC flash memory, NAS SSDs can efficiently handle intensive workloads and are available in 2.5-inch and M.2 (SATA III & PCIe) form factors with flexible capacity options — allowing for a quick and seamless NAS system upgrade.

NAS SSDs are designed for **low latency and fast response**, ensuring high performance of data processing. They combine a lightweight, compact design, vibration resistance, and low power consumption\*. More importantly, they are completely silent. NAS SSDs can support 4K and other high-resolution image formats and helps graphic designers improve storage performance.

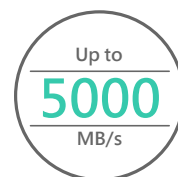
\*Compared to traditional hard drives, SSDs only require 1/3 the power consumption.

### Key Features

- Tailored specifically for NAS systems
- Upgrade the NAS systems to save power and operate silently
- High durability for longer service life
- Capacity up to 4TB (PP4480-R)
- QVL with well-known brands



Improve NAS System  
Efficiency



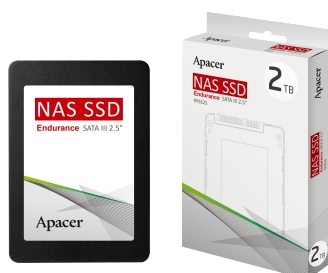
Low Latency and Fast  
Response



Select Storage or Cache  
for Peak Performance



Multiple Capacity Options



PPSS25-R

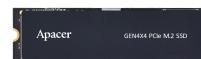
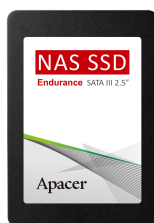


PP3480-R



PB4480-R





# Specification

Model	PPSS25-R	PP3480-R	PB4480-R
Capacity	256GB/512GB/1TB/2TB	256GB/512GB/1TB/2TB	512GB/1TB/2TB/4TB
Interface	SATA III	PCIe Gen3 ×4	PCIe Gen4 ×4
NAND Flash	3D TLC	3D TLC	3D TLC
Sequential Read/Write (MB/s) (Max)*	560/510	2450/2000	5000/4400
Operating Temperature (°C)	0°C ~ 70°C	0°C ~ 70°C	0°C ~ 70°C
Terabytes Written (TBW)	385/820/2065/3750	500/1000/2000/4000	500/1000/2000/4000
MTBF (Hours)	>2,000,000	>2,000,000	>2,000,000
Dimensions (mm)	(L)100.00 x (W)69.85 x (H)7.00	(L)80.00 x (W)22.00 x (H)2.15	(L)80.00 x (W)22.00 x (H)2.43
Warranty	5 years or TBW, whichever occurs first		

\*The performance may vary due to host hardware, software, usage and storage capacity.

# Ordering Information

Model	Capacity	Part Number	EAN Code
PPSS25-R (2.5" SATA III)	256GB	AP256GPPSS25-R	4712389918550
	512GB	AP512GPPSS25-R	4712389918567
	1TB	AP1TPSS25-R	4712389918642
	2TB	AP2TPSS25A-R	4712389920317
PP3480-R (M.2 PCIe)	256GB	AP256GPP3480-R	4712389918611
	512GB	AP512GPP3480-R	4712389918628
	1TB	AP1TPP3480-R	4712389918635
	2TB	AP2TPP3480-R	4712389918819
PB4480-R (M.2 PCIe)	512GB	AP512GPB4480-R	4712389920393
	1TB	AP1TPB4480-R	4712389920409
	2TB	AP2TPB4480-R	4712389920416
	4TB	AP4TPB4480-R	4712389920423



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