Apacer

Access Limitless Creativity to Spark Your Vision

Brochure

Where Data Drives Every Decision,

Apacer leads the charge in technology innovation, providing state-of-the-art SSD and DRAM solutions tailored to both consumer and industrial needs. From purpose-driven applications to immersive entertainment, we ensure seamless data storage, fast processing, and unmatched reliability for a wide spectrum of use cases.
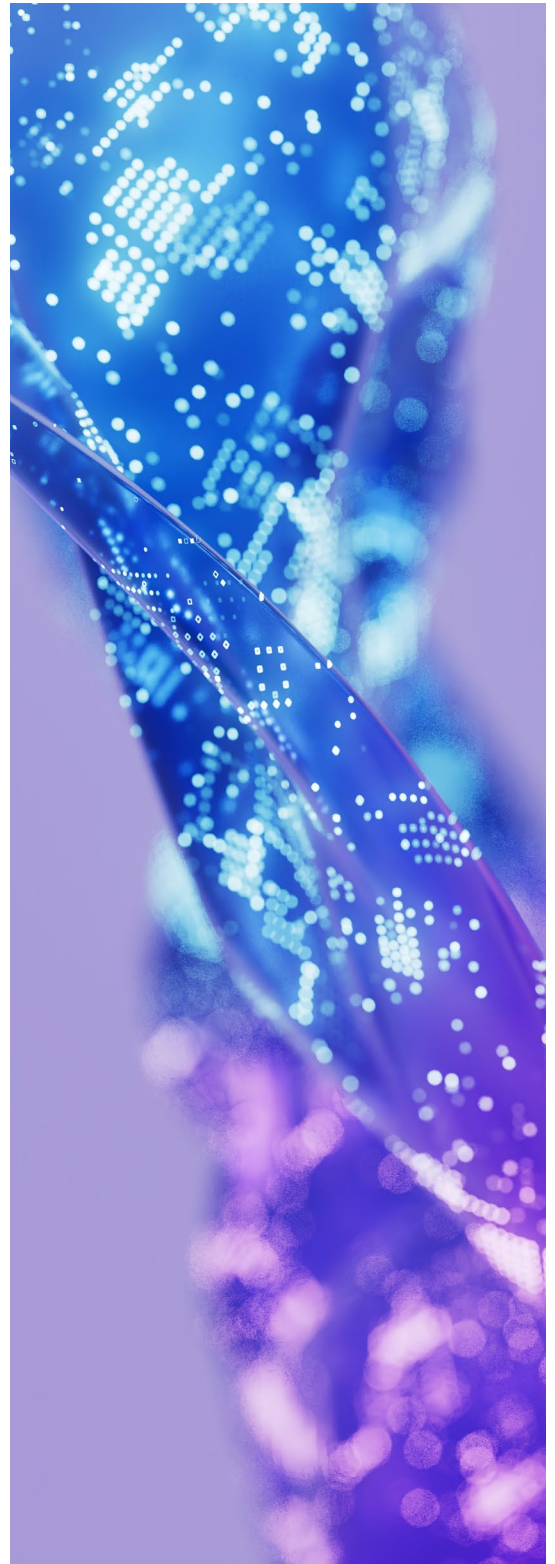
At Apacer, we go beyond delivering products — we partner with you to solve challenges, optimize performance, and future-proof your operations. With our commitment to excellence and a focus on empowering businesses and individuals, we help you unlock the full potential of your data.

Access the Best — Where Reliability Meets Innovation.

"**At Apacer, innovation is at the heart of everything we do. We're unlocking the full potential of data, no matter where it resides, and delivering transformative solutions that drive business growth and enrich lives worldwide.**"

Gibson Chen
President of Apacer

Access Creativity to Transform Your Professional Workspace

In today's digital era, success hinges on tools that boost productivity, streamline data management, and ensure security. Our high-performance storage solutions—SSD, DRAM and microSD card—are crafted to tackle even the most demanding projects. By enhancing workflow and workplace efficiency, we empower you to bring your vision to life and achieve your goals with confidence and precision.

Apacer provides a comprehensive 7-tailed storage solution designed to meet your specific business needs and future demands. Our Innovation optimize performance, enhance work efficiency, and drive business growth.

Retail POS Systems

Faster Transactions, Reliable Operations
Apacer SSD and microSD cards ensure quick transactions and 24/7 reliability, minimizing downtime and enhancing the customer experience.

Kiosks

Durable Performance in Public Spaces
Built for high-traffic areas, Apacer SSD and microSD Cards offer exceptional durability and consistent performance for unattended kiosks.

All-in-One Systems (AIO)

Efficient Multitasking, Seamless Use
Apacer SSD and DRAM provide high-speed, responsive performance for compact AIO systems, ideal for work or entertainment.

PC Upgrades

Extend Lifespan, Boost Speed
Upgrade your PC with Apacer SSD and DRAM for faster boot times, smoother multitasking, and more storage.

Thin Clients

Energy-Efficient, Streamlined Solutions
Optimize virtual workspaces with Apacer SSD and DRAM, offering lag-free performance for cloud-based applications.

Mini PCs

Compact Power, Big Performance
Apacer SSD and DRAM provide efficient, high-performance solutions for space-saving mini PCs.

Dash Cams

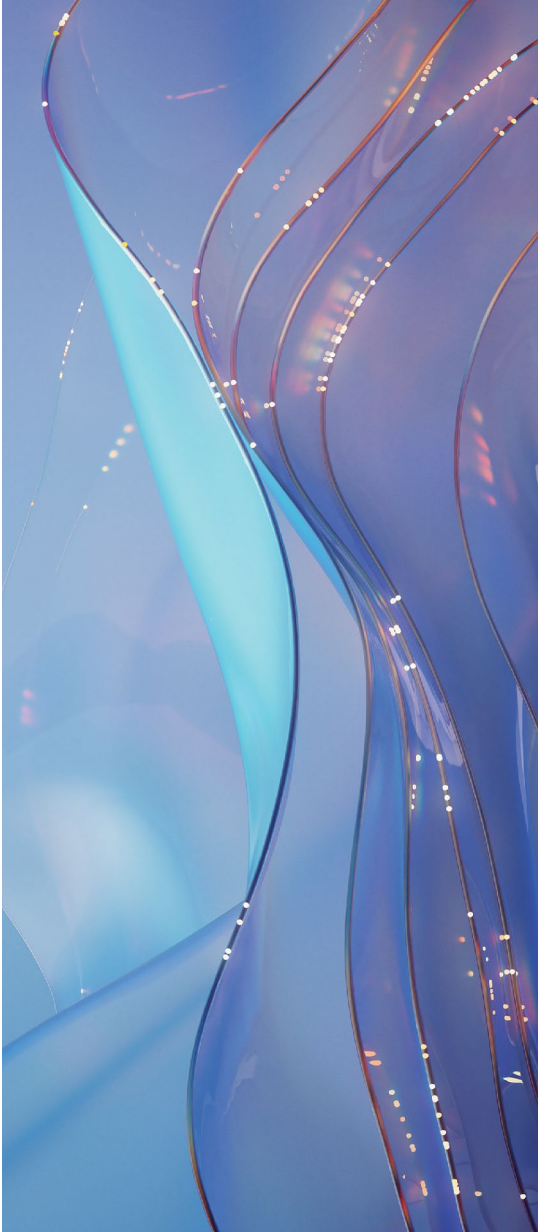**Reliable Storage for Critical Moments**
Designed for continuous recording, Apacer microSD cards deliver exceptional durability and reliable performance, ensuring vital footage is safely stored.

Purpose–built SSD Technologies for Modern Workforce Applications

Apacer offers high-performance storage solutions designed to meet the needs of professionals. Built for reliability, endurance, and speed, our purpose-built SSD ensure smooth and seamless operation, whether you're managing demanding tasks, handling large files, or creating on the go. Elevate your work with storage you can depend on.

Let us help you modernize your storage solutions, so you can focus on driving business growth.

Longevity

Page Mapping

Optimize Performance by Flash Management
Apacer Page Mapping can reduce block erase frequency to boost random access speeds, extend the SSD's lifespan, and ensure optimal performance.

S.M.A.R.T.

Self-monitoring System to Monitor SSD Status
Apacer S.M.A.R.T. is an early warning system to help users avoid unexpected downtime and offers real-time indicators of SSD health and potential issues.

Data Integrity

Smart Read Refresh™

Ensure Data Access Over Time
Apacer Smart Read Refresh provides a more durable experience. The data will be rewritten to a different block to prevent read disturb errors and reduce the risk of corruption or loss.

Durability

Thermal Throttling

Ensure Performance Under Heat
Apacer's Thermal Throttling dynamically adjusts frequency to manage device temperature, sustaining performance and enhancing data reliability during overheating conditions.

Value-added

Apacer SSD Utility

Proactive SSD Health Management for Continuity
Apacer's SSD Utility 2.0 provides a user-friendly interface for real-time SSD health monitoring and workload analysis, preventing failures from excessive tasks in demanding environments.

UDIMM

Features

- **JEDEC-compliant Design** - Ensures seamless compatibility in purpose-built systems.
- **Power Management IC (PMIC) (DDR5 Voltage: 1.1V)** - Efficiently regulates system power load, ensuring stable and reliable power delivery.

DDR5 UDIMM

DDR4 UDIMM

Model	PC5-44800	PC5-38400	PC4-25600	PC4-21300
Form Factor	DDR5 UDIMM	DDR5 UDIMM	DDR4 UDIMM	DDR4 UDIMM
Capacity	8GB/16GB/32GB	8GB/16GB/32GB	8GB/16GB/32GB	4GB/8GB/16GB/32GB
Frequency (MT/s)	5600	4800	3200	2666
Voltage	1.1V	1.1V	1.2V	1.2V
CL Timing	CL46	CL40	CL22	CL19
Pin	288-Pin	288-Pin	288-Pin	288-Pin

DDR4 UDIMM

DDR3 UDIMM

Model	PC4-19200	PC4-17000	PC3-12800
Form Factor	DDR4 UDIMM	DDR4 UDIMM	DDR3 UDIMM
Capacity	4GB/8GB/16GB	4GB/8GB/16GB	2GB/4GB/8GB
Frequency (MT/s)	2400	2133	1600
Voltage	1.2V	1.2V	1.35V/1.5V
CL Timing	CL17	CL15	CL11
Pin	288-Pin	288-Pin	240-Pin

SODIMM

Features

- **JEDEC-compliant Design** - Ensures seamless compatibility in purpose-built systems.
- **Power Management IC (PMIC) (DDR5 Voltage: 1.1V)** - Efficiently regulates system power load, ensuring stable and reliable power delivery.

DDR5 SODIMM   **DDR4 SODIMM**

Model	PC5-44800	PC5-38400	PC4-25600	PC4-21300
Form Factor	DDR5 SODIMM	DDR5 SODIMM	DDR4 SODIMM	DDR4 SODIMM
Capacity	8GB/16GB/32GB	8GB/16GB/32GB	8GB/16GB/32GB	4GB/8GB/16GB/32GB
Frequency (MT/s)	5600	4800	3200	2666
Voltage	1.1V	1.1V	1.2V	1.2V
CL Timing	CL46	CL40	CL22	CL19
Pin	262-Pin	262-Pin	260-Pin	260-Pin

DDR4 SODIMM   **DDR3 SODIMM**

Model	PC4-19200	PC4-17000	PC3-12800
Form Factor	DDR4 SODIMM	DDR4 SODIMM	DDR3 SODIMM
Capacity	4GB/8GB/16GB	4GB/8GB/16GB	2GB/4GB/8GB
Frequency (MT/s)	2400	2133	1600
Voltage	1.2V	1.2V	1.35V/1.5V
CL Timing	CL17	CL15	CL11
Pin	260-Pin	260-Pin	204-Pin

PCIe SSD Module

Features

- **TRIM Support** - Improves compatibility, endurance and performance.
- **S.M.A.R.T. Support and Apacer SSD Utility** - Self-monitoring system to monitor SSD status.
- **Heat Spreader (PB4480 & PD4480)** - Avoid SSD overheating and ensure stable performance.

Model	PB5480*	PB4480	PD4480	PB3480
Capacity	1TB/2TB	256GB/512GB/ 1TB/2TB/4TB	256GB/512GB/1TB/2TB	256GB/512GB/1TB/2TB
Interface	PCIe Gen5 x4 NVMe 2.0	PCIe Gen4 x4 NVMe 1.4	PCIe Gen4 x4 NVMe 1.4	PCIe Gen3 x4 NVMe 1.3
NAND Flash	3D NAND	3D TLC	3D NAND	3D NAND
Sequential Read/ Write (MB/s) (Max)**	10300/8600	5000/4400	3600/3000	3500/2550
Operating Temperature	0℃ ~ 70℃	0℃ ~ 70℃	0℃ ~ 70℃	0℃ ~ 70℃
Terabytes Written (TBW)	600/1200	200/400/800/ 1600/3200	200/400/800/1600	200/400/600/1200
MTBF (Hours)	>2,000,000	>2,000,000	>2,000,000	>2,000,000
Dimensions (mm)	(L)30.00 x (W)22.00 x (H)2.38	(L)30.00 x (W)22.00 x (H)2.43	Single side: (L)30.00 x (W)22.00 x (H)2.43 Double side: (L)30.00 x (W)22.00 x (H)3.78	(L)80.00 x (W)22.00 x (H)2.25
Warranty	3 years or TBW, whichever occurs first			

*Apacer provides ready-to-use heat dissipation devices if a cooling solution is required for this model.

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

2.5″ SATA SSD

Features

- **TRIM Support** - Improves compatibility, endurance and performance.
- **S.M.A.R.T. Support and Apacer SSD Utility** - Self-monitoring system to monitor SSD status.

Model	PBSS25
Capacity	256GB/512GB/1TB/2TB/4TB
Interface	SATA III
NAND Flash	3D NAND
Sequential Read/Write (MB/s) (Max)*	550/520
Operating Temperature	0℃ ~ 70℃
Terabytes Written (TBW)	180/360/450/900/1350/1800
MTBF (Hours)	>2,000,000
Dimensions (mm)	(L)99.90 x (W)69.90 x (H)6.90
Warranty	3 years or TBW, whichever occurs first

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

microSD Card

Features

- **Fixed Controller/Fixed BOM** - Ensure product reliability and compatibility.
- **Up to 40,000 Hours of Non-stop Operation** - Provide long continuous recording without any dropped frames.
- **Waterproof, Anti-drop, Anti-magnetic, and Anti-X-ray** - Protect precious data in demanding environments.

Model	Endurance	PMA131/PMA231
BOM Control	Fixed Controller	Fixed BOM*
Capacity	32GB/64GB/128GB/256GB	PMA131 : 8GB PMA231 : 16GB/32GB/64GB/128GB/ 256GB/512GB
Standard	SD5.1 UHS-1	SD5.1 UHS-1
Speed Class	UHS Speed : Class 3 Speed Class : Class 10 Video Speed Class : V30	UHS Speed : Class 1/Class 3 Speed Class : Class 10 Video Speed Class : V10/V30
Sequential Read/Write (MB/s) (Max)**	100/80	100/85
Operating Temperature	-25℃ ~ 85℃	-25℃ ~ 85℃
Dimensions (mm)	(L)15.00 x (W)11.00 x (H)1.00	(L)15.00 x (W)11.00 x (H)1.00
Warranty	3 years limited	

*Fixed BOM, including controller, flash and firmware.
**The performance may vary due to host hardware, software, usage and storage capacity.

USB Drive

Features

- **Fixed Controller** - Ensure product reliability and compatibility.
- **ECC Engine** - Ensure reliable data integrity with error detection and correction.
- **Power Saving Implemented** - Reduce energy consumption for longer-lasting performance.
- **Advanced Wear-leveling Algorithms** - Ensure having lower erase counts to extend SSD lifespan.

Model	PAH355	PAH356
Capacity	32GB/64GB/128GB	32GB/64GB/128GB
Interface	SuperSpeed USB 3.2 Gen1 (5Gb/s)*, backward compatible with USB 2.0	SuperSpeed USB 3.2 Gen1 (5Gb/s)*, backward compatible with USB 2.0
Color	Black	Black
Material	Plastic	Plastic
Power Consumption**	Active mode <500 mA	Active mode <500 mA
System Supported	- Windows 11/10/8.1/8 - macOS 10.6.X or above - Linux Kernel 2.6.X or above	- Windows 11/10/8.1/8 - macOS 10.6.X or above - Linux Kernel 2.6.X or above
Connector	USB-A	USB-A
Dimensions (mm)	(L)56.05 x (W)18.00 x (H)8.50	(L)53.89 x (W)20.91 x (H)8.80
Weight	7.8g	8.5g
Warranty	3 years limited	

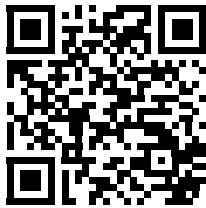*The performance may vary due to host hardware, software, usage and storage capacity.

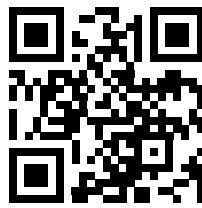**Power consumption is measured using CrystalDiskMark 8.0.4 with file size 1000 MB.

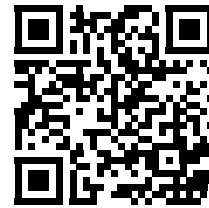# Unlock your business's potential in the digital era with Apacer.

Learn more at www.apacer.com.

LinkedIn	Website	Contact us

Global Presence

Taiwan (Headquarter)

Apacer Technology Inc.
1F., No.32, Zhongcheng Rd., Tucheng Dist.,
New Taipei City 236, Taiwan R.O.C.
Tel : 886-2-2267-8000
amtsales@apacer.com

U.S.A.

Apacer Memory America, Inc.
46732 Lakeview Blvd., Fremont, CA 94538
Tel : 1-408-518-8699
sa@apacerus.com

Japan

Apacer Technology Corp.
6F, Daiyontamachi Bldg., 2-17-12,
Shibaura, Minato-Ku, Tokyo, 108-0023,
Japan
Tel: 81-3-5419-2668
jpservices@apacer.com

Europe

Apacer Technology B.V.
Science Park Eindhoven 5051 5692 EB Son,
The Netherlands
Tel : 31-40-267-0000
sales@apacer.nl

China

Apacer Electronic (Shanghai) Co., Ltd
501b, Building 2, No. 299 Youle Road,
Changning District, China
Tel : 86-21-6228-9939

India

Apacer Technologies Pvt Ltd.
60/A, Second floor,7th Main, 8th Cross,3rd
Phase, J.P Nagar,
Bengaluru - 560078
Karnataka
India
Tel : 91-080-35910296