



Apacer

Apacer Gaming DRAM Series

**Gaming. Beyond Limits.**



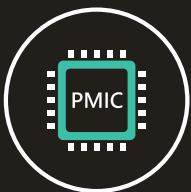
# Storage, Empowering AI Growth.

For over two decades, Apacer has redefined the role of storage across diverse global industries and markets. Today, we are entering a pivotal new chapter—evolving our foundation in high-performance storage to drive Edge AI. By combining data-driven technologies with ultra-reliable engineering, we deliver smart-integrated storage solutions that empower critical applications in robotics, smart manufacturing, modern mobility, and next-generation IoT.

In collaboration with our leading ecosystem partners, we enable enterprises to process data closer to the source—achieving higher efficiency, enhanced reliability, and sustainable innovation for a better tomorrow.

## Highlighted Technologies

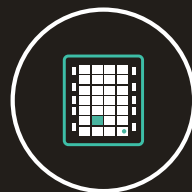
### Features



#### Power Management IC (PMIC)

Stable Power for High-frequency Operation

Delivers stable power efficiency by optimizing on-module voltage regulation for consistent performance under gaming and overclocking conditions.



#### On-Die ECC

Reliable Operation During High-speed Workloads

Improves data integrity and system stability by automatically correcting internal data errors during high-speed gaming and system workloads.



#### One-Click Overclocking

Instant Access to Higher Memory Speeds

Supports Intel® XMP 3.0 and AMD EXPO™ for effortless one-click performance tuning with improved speed and system stability.



#### RGB Lighting Diffuser

Smooth and Immersive RGB Illumination

Creates vivid illumination with smooth light distribution and seamless synchronization across compatible motherboard lighting ecosystems.

## Go Beyond Your Limits With Unrivaled Speed



### NOX RGB DDR5



Model	Form Factor	Capacity		Frequency(MT/s)	Voltage	CL Timing	PIN
		Single Package	Dual Package				
PC5-64000	DDR5 UDIMM	16GB	32GB	8000MHz	1.45V	38-48-48-84	288-Pin
PC5-60800	DDR5 UDIMM	16GB	32GB	7600MHz	1.45V	36-48-48-84	288-Pin
PC5-57600	DDR5 UDIMM	16GB	32GB	7200MHz	1.45V	34-42-42-84	288-Pin
PC5-54400	DDR5 UDIMM	16GB	32GB	6800MHz	1.4V	36-46-46-84	288-Pin
PC5-51200	DDR5 UDIMM	16GB/32GB	32GB/64GB	6400MHz	1.4V 1.35V	32-39-39-84 36-48-48-104	288-Pin
PC5-48000	DDR5 UDIMM	16GB/32GB	32GB/64GB	6000MHz	1.35V	38-48-48-96	288-Pin
PC5-44800	DDR5 UDIMM	16GB/32GB	32GB/64GB	5600MHz	1.25V	40-40-40-80	288-Pin
PC5-41600	DDR5 UDIMM	16GB/32GB	32GB/64GB	5200MHz	1.25V	40-40-40-80	288-Pin

### NOX DDR5



Model	Form Factor	Capacity		Frequency(MT/s)	Voltage	CL Timing	PIN
		Single Package	Dual Package				
PC5-54400	DDR5 UDIMM	16GB	32GB	6800MHz	1.4V	36-46-46-84	288-Pin
PC5-51200	DDR5 UDIMM	16GB/32GB	32GB/64GB	6400MHz	1.4V 1.35V	32-39-39-84 36-48-48-104	288-Pin
PC5-48000	DDR5 UDIMM	16GB/32GB	32GB/64GB	6000MHz	1.35V	38-48-48-96	288-Pin
PC5-44800	DDR5 UDIMM	8GB/16GB/32GB	16GB/32GB/64GB	5600MHz	1.25V	40-40-40-80	288-Pin
PC5-41600	DDR5 UDIMM	8GB/16GB/32GB	16GB/32GB/64GB	5200MHz	1.25V	40-40-40-80	288-Pin

## NOX TUF RGB DDR5



Model	Form Factor	Capacity		Frequency(MT/s)	Voltage	CL Timing	PIN
		Single Package	Dual Package				
PC5-64000	DDR5 UDIMM	16GB	32GB	8000MHz	1.45V	38-48-48-84	288-Pin
PC5-60800	DDR5 UDIMM	16GB	32GB	7600MHz	1.45V	36-48-48-84	288-Pin
PC5-57600	DDR5 UDIMM	16GB	32GB	7200MHz	1.45V	34-42-42-84	288-Pin
PC5-54400	DDR5 UDIMM	16GB	32GB	6800MHz	1.4V	36-46-46-84	288-Pin
PC5-51200	DDR5 UDIMM	16GB/32GB	32GB/64GB	6400MHz	1.4V 1.35V	32-39-39-84 36-48-48-104	288-Pin
PC5-48000	DDR5 UDIMM	16GB/32GB	32GB/64GB	6000MHz	1.35V	38-48-48-96	288-Pin
PC5-44800	DDR5 UDIMM	16GB/32GB	32GB/64GB	5600MHz	1.25V	40-40-40-80	288-Pin
PC5-41600	DDR5 UDIMM	16GB/32GB	32GB/64GB	5200MHz	1.25V	40-40-40-80	288-Pin

## NOX TUF DDR5



Model	Form Factor	Capacity		Frequency(MT/s)	Voltage	CL Timing	PIN
		Single Package	Dual Package				
PC5-54400	DDR5 UDIMM	16GB	32GB	6800MHz	1.4V	36-46-46-84	288-Pin
PC5-51200	DDR5 UDIMM	16GB/32GB	32GB/64GB	6400MHz	1.4V 1.35V	32-39-39-84 36-48-48-104	288-Pin
PC5-48000	DDR5 UDIMM	16GB/32GB	32GB/64GB	6000MHz	1.35V	38-48-48-96	288-Pin
PC5-44800	DDR5 UDIMM	16GB/32GB	32GB/64GB	5600MHz	1.25V	40-40-40-80	288-Pin
PC5-41600	DDR5 UDIMM	16GB/32GB	32GB/64GB	5200MHz	1.25V	40-40-40-80	288-Pin

## PANTHER RGB DDR5



Model	Form Factor	Capacity		Frequency(MT/s)	Voltage	CL Timing	PIN
		Single Package	Dual Package				
PC5-54400	DDR5 UDIMM	16GB	32GB	6800MHz	1.4V	36-46-46-84	288-Pin
PC5-51200	DDR5 UDIMM	16GB/32GB	32GB/64GB	6400MHz	1.4V 1.35V	32-39-39-84 36-48-48-104	288-Pin
PC5-48000	DDR5 UDIMM	16GB/32GB	32GB/64GB	6000MHz	1.35V	38-48-48-96	288-Pin
PC5-44800	DDR5 UDIMM	16GB/32GB	32GB/64GB	5600MHz	1.25V	40-40-40-80	288-Pin
PC5-41600	DDR5 UDIMM	16GB/32GB	32GB/64GB	5200MHz	1.25V	40-40-40-80	288-Pin

## PANTHER DDR5



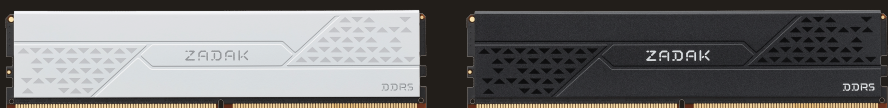
Model	Form Factor	Capacity		Frequency(MT/s)	Voltage	CL Timing	PIN
		Single Package	Dual Package				
PC5-54400	DDR5 UDIMM	16GB	32GB	6800MHz	1.4V	36-46-46-84	288-Pin
PC5-51200	DDR5 UDIMM	16GB/32GB	32GB/64GB	6400MHz	1.4V 1.35V	32-39-39-84 36-48-48-104	288-Pin
PC5-48000	DDR5 UDIMM	16GB/32GB	32GB/64GB	6000MHz	1.35V	38-48-48-96	288-Pin
PC5-44800	DDR5 UDIMM	8GB/16GB/32GB	16GB/32GB/64GB	5600MHz	1.25V	40-40-40-80	288-Pin
PC5-41600	DDR5 UDIMM	8GB/16GB/32GB	16GB/32GB/64GB	5200MHz	1.25V	40-40-40-80	288-Pin

## ZADAK RGB DDR5



Model	Form Factor	Capacity		Frequency(MT/s)	Voltage	CL Timing	PIN
		Single Package	Dual Package				
PC5-64000	DDR5 UDIMM	16GB	32GB	8000MHz	1.45V	38-48-48-84	288-Pin
PC5-60800	DDR5 UDIMM	16GB	32GB	7600MHz	1.45V	36-48-48-84	288-Pin
PC5-57600	DDR5 UDIMM	16GB	32GB	7200MHz	1.45V	34-42-42-84	288-Pin
PC5-54400	DDR5 UDIMM	16GB	32GB	6800MHz	1.4V	36-46-46-84	288-Pin
PC5-51200	DDR5 UDIMM	16GB/32GB	32GB/64GB	6400MHz	1.4V 1.35V	32-39-39-84 36-48-48-104	288-Pin
PC5-48000	DDR5 UDIMM	16GB/32GB	32GB/64GB	6000MHz	1.35V	38-48-48-96	288-Pin
PC5-44800	DDR5 UDIMM	16GB/32GB	32GB/64GB	5600MHz	1.25V	40-40-40-80	288-Pin
PC5-41600	DDR5 UDIMM	16GB/32GB	32GB/64GB	5200MHz	1.25V	40-40-40-80	288-Pin

## TWIST DDR5



Model	Form Factor	Capacity		Frequency(MT/s)	Voltage	CL Timing	PIN
		Single Package	Dual Package				
PC5-54400	DDR5 UDIMM	16GB	32GB	6800MHz	1.4V	36-46-46-84	288-Pin
PC5-51200	DDR5 UDIMM	16GB/32GB	32GB/64GB	6400MHz	1.4V 1.35V	32-39-39-84 36-48-48-104	288-Pin
PC5-48000	DDR5 UDIMM	16GB/32GB	32GB/64GB	6000MHz	1.35V	38-48-48-96	288-Pin
PC5-44800	DDR5 UDIMM	8GB/16GB/32GB	16GB/32GB/64GB	5600MHz	1.25V	40-40-40-80	288-Pin
PC5-41600	DDR5 UDIMM	8GB/16GB/32GB	16GB/32GB/64GB	5200MHz	1.25V	40-40-40-80	288-Pin

# Gaming DDR4 Line-Up

## NOX RGB DDR4



Model	Form Factor	Capacity		Frequency(MT/s)	Voltage	CL Timing	PIN
		Single Package	Dual Package				
PC4-28800	DDR4 UDIMM	8GB/16GB/32GB	16GB/32GB/64GB	3600MHz	1.35V	18-22-22-38	288-Pin
PC4-25600	DDR4 UDIMM	8GB/16GB/32GB	16GB/32GB/64GB	3200MHz	1.35V	16-20-20-38	288-Pin
PC4-24000	DDR4 UDIMM	8GB/16GB	16GB/32GB	3000MHz	1.35V	16-18-18-38	288-Pin
PC4-21300	DDR4 UDIMM	8GB/16GB	16GB/32GB	2666MHz	1.2V	16-18-18-38	288-Pin

## NOX DDR4



Model	Form Factor	Capacity		Frequency(MT/s)	Voltage	CL Timing	PIN
		Single Package	Dual Package				
PC4-28800	DDR4 UDIMM	8GB/16GB/32GB	16GB/32GB/64GB	3600MHz	1.35V	18-22-22-38	288-Pin
PC4-25600	DDR4 UDIMM	8GB/16GB/32GB	16GB/32GB/64GB	3200MHz	1.35V	16-20-20-38	288-Pin
PC4-24000	DDR4 UDIMM	8GB/16GB	16GB/32GB	3000MHz	1.35V	16-18-18-38	288-Pin
PC4-21300	DDR4 UDIMM	8GB/16GB	16GB/32GB	2666MHz	1.2V	16-18-18-38	288-Pin

## PANTHER GOLDEN DDR4

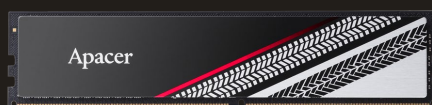


Model	Form Factor	Capacity		Frequency(MT/s)	Voltage	CL Timing	PIN
		Single Package	Dual Package				
PC4-28800	DDR4 UDIMM	8GB/16GB/32GB	16GB/32GB/64GB	3600MHz	1.35V	18-22-22-38	288-Pin
PC4-25600	DDR4 UDIMM	8GB/16GB/32GB	16GB/32GB/64GB	3200MHz	1.35V	16-20-20-38	288-Pin
PC4-24000	DDR4 UDIMM	8GB/16GB	16GB/32GB	3000MHz	1.35V	16-18-18-38	288-Pin
PC4-21300	DDR4 UDIMM	8GB/16GB	16GB/32GB	2666MHz	1.2V	16-18-18-38	288-Pin

# Powerful Speed, Easy to Control



## TEX DDR4



Model	Form Factor	Capacity		Frequency(MT/s)	Voltage	CL Timing	PIN
		Single Package	Dual Package				
PC4-25600	DDR4 UDIMM	8GB/16GB/32GB	-	3200MHz	1.35V	16-20-20-38	288-Pin
PC4-24000	DDR4 UDIMM	8GB/16GB	-	3000MHz	1.35V	16-18-18-38	288-Pin
PC4-21300	DDR4 UDIMM	8GB/16GB	-	2666MHz	1.2V	16-18-18-38	288-Pin

## NOX DDR4 SODIMM



Model	Form Factor	Capacity		Frequency(MT/s)	Voltage	CL Timing	PIN
		Single Package	Dual Package				
PC4-25600	DDR4 SODIMM	8GB/16GB	16GB/32GB	3200MHz	1.35V	20-22-22-38	260-Pin
PC4-24000	DDR4 SODIMM	8GB/16GB	16GB/32GB	3000MHz	1.35V	18-20-20-38	260-Pin
PC4-21300	DDR4 SODIMM	8GB/16GB	16GB/32GB	2666MHz	1.2V	18-18-18-38	260-Pin

# UDIMM & SODIMM Line-Up

## UDIMM



Model	Form Factor	Capacity	Frequency(MT/s)	Voltage	CL Timing	PIN
PC-57600	DDR5 CUDIMM	8GB/16GB/32GB	7200MHz	1.1V	CL58	288-Pin
PC-51200	DDR5 CUDIMM	8GB/16GB/32GB	6400MHz	1.1V	CL52	288-Pin
PC5-44800	DDR5 UDIMM	8GB/16GB/32GB	5600MHz	1.1V	CL46	288-Pin
PC5-38400	DDR5 UDIMM	8GB/16GB/32GB	4800MHz	1.1V	CL40	288-Pin
PC4-25600	DDR4 UDIMM	8GB/16GB/32GB	3200MHz	1.2V	CL22	288-Pin
PC4-21300	DDR4 UDIMM	4GB/8GB/16GB/32GB	2666MHz	1.2V	CL19	288-Pin
PC4-19200	DDR4 UDIMM	4GB/8GB/16GB	2400MHz	1.2V	CL17	288-Pin
PC4-17000	DDR4 UDIMM	4GB/8GB/16GB	2133MHz	1.2V	CL15	288-Pin
PC3-12800	DDR3 UDIMM	2GB/4GB/8GB	1600MHz	1.35V/1.5V	CL11	240-Pin
PC3-10600	DDR3 UDIMM	2GB/4GB/8GB	1333MHz	1.35V/1.5V	CL11	240-Pin

## SODIMM



Model	Form Factor	Capacity	Frequency(MT/s)	Voltage	CL Timing	PIN
PC-57600	DDR5 CSODIMM	8GB/16GB/32GB	7200MHz	1.1V	CL58	262-Pin
PC-51200	DDR5 CSODIMM	8GB/16GB/32GB	6400MHz	1.1V	CL52	262-Pin
PC5-44800	DDR5 SODIMM	8GB/16GB/32GB	5600MHz	1.1V	CL46	262-Pin
PC5-38400	DDR5 SODIMM	8GB/16GB/32GB	4800MHz	1.1V	CL40	262-Pin
PC4-25600	DDR4 SODIMM	8GB/16GB/32GB	3200MHz	1.2V	CL22	260-Pin
PC4-21300	DDR4 SODIMM	4GB/8GB/16GB/32GB	2666MHz	1.2V	CL19	260-Pin
PC4-19200	DDR4 SODIMM	4GB/8GB/16GB	2400MHz	1.2V	CL17	260-Pin
PC4-17000	DDR4 SODIMM	4GB/8GB/16GB	2133MHz	1.2V	CL15	260-Pin
PC3-12800	DDR3 SODIMM	2GB/4GB/8GB	1600MHz	1.35V/1.5V	CL11	204-Pin
PC3-10600	DDR3 SODIMM	2GB/4GB/8GB	1333MHz	1.35V/1.5V	CL11	204-Pin