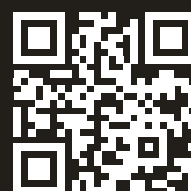


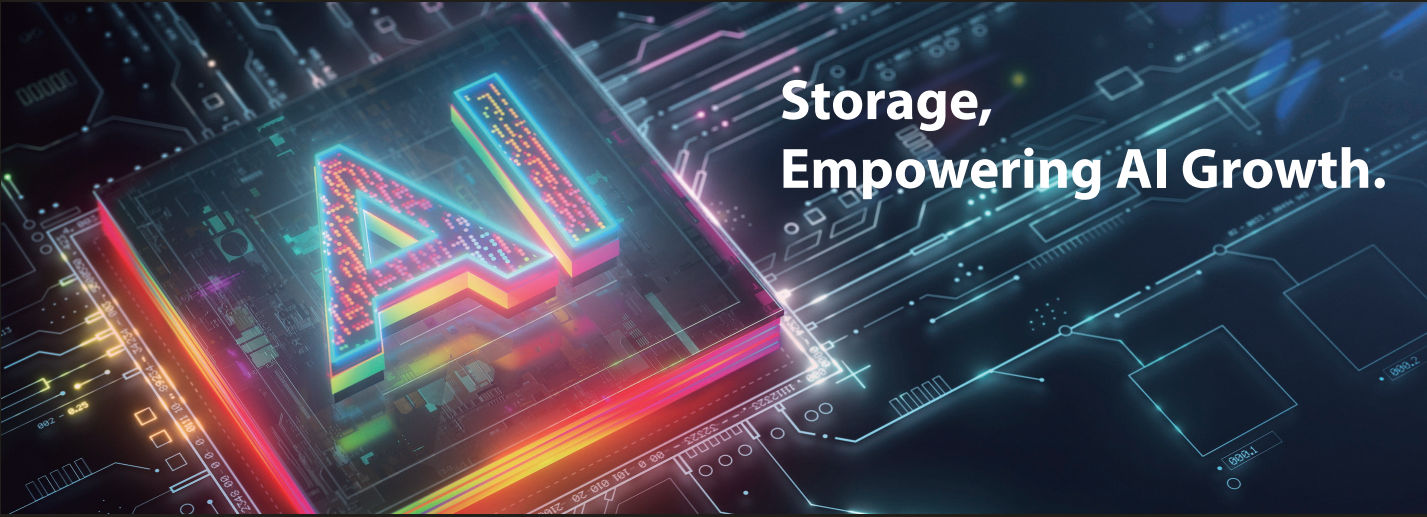
A woman with short blue hair and large headphones is sitting in a gaming chair, cheering with her arms raised. She is wearing a white patterned crop top and white shorts. In front of her is a desk with a large monitor, a keyboard, and a glowing green mouse. The background is a vibrant, colorful bokeh of lights, suggesting a gaming arena or a night cityscape. A bright white geometric line graphic is overlaid on the right side of the image.

Apacer

Apacer Gaming DRAM & SSD Series

Gaming. Beyond Limits.





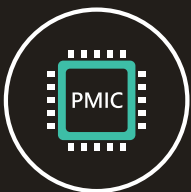
Storage, Empowering AI Growth.

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.

DRAM Highlighted Technologies

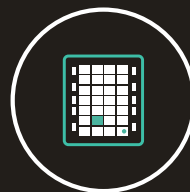
Features



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.

A 3D rendering of a transparent blue cube with a glowing pink 'AI' logo on top, resting on a circuit board with various components.

Storage, Empowering AI Growth.

Gaming SSD Highlighted Technologies

Data Integrity

End-to-End Data Protection



Ensures Data Integrity at Multiple Points

Apacer End-to-End Data Protection can improve system stability and enable reliable data transfers. This technology ensures error checking whenever data moves between the host, controller, DRAM, or NAND flash.



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.

Longevity

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 realtime indicators of SSD health and potential issues.

Value-Added Software

Apacer SSD Utility



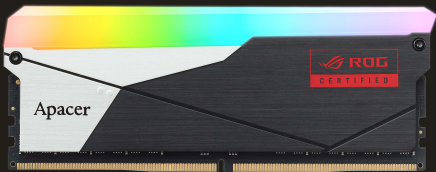
Proactive SSD Health Management for Continuity

Apacer's SSD Utility provides a user-friendly interface for realtime SSD health monitoring and workload analysis, preventing failures from excessive tasks in demanding environments.

BEYOND THE IMPOSSIBLE



ZADAK PRO ROG CERTIFIED RGB DDR5



Model	Form Factor	Capacity		Frequency(MT/s)	Voltage	CL Timing	PIN
		Single Package	Dual Package				
PC5-48000	DDR5 UDIMM	16GB	32GB	6000 MT/s	1.35V	38-48-48-96	288-Pin
PC5-51200	DDR5 UDIMM	24GB	64GB	6000 MT/s	1.4V	28-48-48-96	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	8000 MT/s	1.4V	38-48-48-84	288-Pin
PC5-60800	DDR5 UDIMM	16GB	32GB	7600 MT/s	1.4V	36-48-48-84	288-Pin
PC5-57600	DDR5 UDIMM	16GB	32GB	7200 MT/s	1.4V	34-42-42-84	288-Pin
PC5-54400	DDR5 UDIMM	16GB	32GB	6800 MT/s	1.4V	36-46-46-84	288-Pin
PC5-51200	DDR5 UDIMM	16GB/32GB	32GB/64GB	6400 MT/s	1.4V 1.35V	32-39-39-84 36-48-48-104	288-Pin
PC5-48000	DDR5 UDIMM	16GB/32GB	32GB/64GB	6000 MT/s	1.35V	38-48-48-96	288-Pin
PC5-44800	DDR5 UDIMM	16GB/32GB	32GB/64GB	5600 MT/s	1.25V	40-40-40-80	288-Pin
PC5-41600	DDR5 UDIMM	16GB/32GB	32GB/64GB	5200 MT/s	1.25V	40-40-40-80	288-Pin

Go Beyond Your Limits With Unrivalled 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	8000 MT/s	1.4V	38-48-48-84	288-Pin
PC5-60800	DDR5 UDIMM	16GB	32GB	7600 MT/s	1.4V	36-48-48-84	288-Pin
PC5-57600	DDR5 UDIMM	16GB	32GB	7200 MT/s	1.4V	34-42-42-84	288-Pin
PC5-54400	DDR5 UDIMM	16GB	32GB	6800 MT/s	1.4V	36-46-46-84	288-Pin
PC5-51200	DDR5 UDIMM	16GB/32GB	32GB/64GB	6400 MT/s	1.4V 1.35V	32-39-39-84 36-48-48-104	288-Pin
PC5-48000	DDR5 UDIMM	16GB/32GB	32GB/64GB	6000 MT/s	1.35V	38-48-48-96	288-Pin
PC5-44800	DDR5 UDIMM	16GB/32GB	32GB/64GB	5600 MT/s	1.25V	40-40-40-80	288-Pin
PC5-41600	DDR5 UDIMM	16GB/32GB	32GB/64GB	5200 MT/s	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	6800 MT/s	1.4V	36-46-46-84	288-Pin
PC5-51200	DDR5 UDIMM	16GB/32GB	32GB/64GB	6400 MT/s	1.4V 1.35V	32-39-39-84 36-48-48-104	288-Pin
PC5-48000	DDR5 UDIMM	16GB/32GB	32GB/64GB	6000 MT/s	1.35V	38-48-48-96	288-Pin
PC5-44800	DDR5 UDIMM	16GB/32GB	32GB/64GB	5600 MT/s	1.25V	40-40-40-80	288-Pin
PC5-41600	DDR5 UDIMM	16GB/32GB	32GB/64GB	5200 MT/s	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	8000 MT/s	1.4V	38-48-48-84	288-Pin
PC5-60800	DDR5 UDIMM	16GB	32GB	7600 MT/s	1.4V	36-48-48-84	288-Pin
PC5-57600	DDR5 UDIMM	16GB	32GB	7200 MT/s	1.4V	34-42-42-84	288-Pin
PC5-54400	DDR5 UDIMM	16GB	32GB	6800 MT/s	1.4V	36-46-46-84	288-Pin
PC5-51200	DDR5 UDIMM	16GB/32GB	32GB/64GB	6400 MT/s	1.4V 1.35V	32-39-39-84 36-48-48-104	288-Pin
PC5-48000	DDR5 UDIMM	16GB/32GB	32GB/64GB	6000 MT/s	1.35V	38-48-48-96	288-Pin
PC5-44800	DDR5 UDIMM	16GB/32GB	32GB/64GB	5600 MT/s	1.25V	40-40-40-80	288-Pin
PC5-41600	DDR5 UDIMM	16GB/32GB	32GB/64GB	5200 MT/s	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	6800 MT/s	1.4V	36-46-46-84	288-Pin
PC5-51200	DDR5 UDIMM	16GB/32GB	32GB/64GB	6400 MT/s	1.4V 1.35V	32-39-39-84 36-48-48-104	288-Pin
PC5-48000	DDR5 UDIMM	16GB/32GB	32GB/64GB	6000 MT/s	1.35V	38-48-48-96	288-Pin
PC5-44800	DDR5 UDIMM	16GB/32GB	32GB/64GB	5600 MT/s	1.25V	40-40-40-80	288-Pin
PC5-41600	DDR5 UDIMM	16GB/32GB	32GB/64GB	5200 MT/s	1.25V	40-40-40-80	288-Pin

NOX SODIMM DDR5



Model	Form Factor	Capacity		Frequency(MT/s)	Voltage	CL Timing	PIN
		Single Package	Dual Package				
PC5-48000	DDR5 SODIMM	16GB	-	6000 MT/s	1.3V	38-48-48-96	262-Pin
PC5-51200	DDR5 SODIMM	16GB	-	6400 MT/s	1.3V	36-48-48-104	262-Pin

PANTHER RGB DDR5



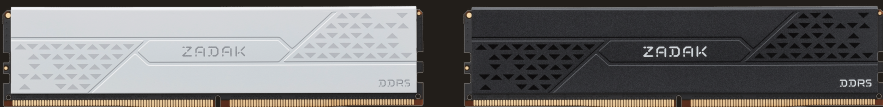
Model	Form Factor	Capacity		Frequency(MT/s)	Voltage	CL Timing	PIN
		Single Package	Dual Package				
PC5-54400	DDR5 UDIMM	16GB	32GB	6800 MT/s	1.4V	36-46-46-84	288-Pin
PC5-51200	DDR5 UDIMM	16GB/32GB	32GB/64GB	6400 MT/s	1.4V 1.35V	32-39-39-84 36-48-48-104	288-Pin
PC5-48000	DDR5 UDIMM	16GB/32GB	32GB/64GB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

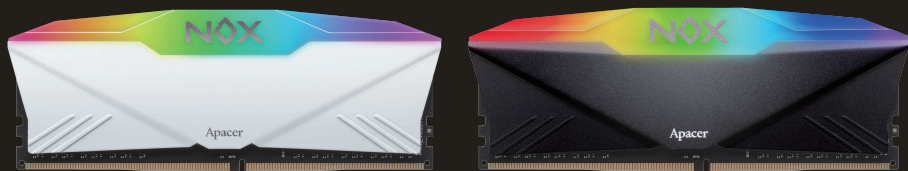
TWIST DDR5



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

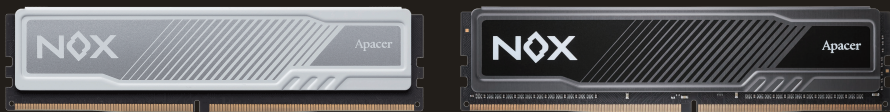
Gaming DDR4 Line-Up

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	3600 MT/s	1.35V	18-22-22-38	288-Pin
PC4-25600	DDR4 UDIMM	8GB/16GB/32GB	16GB/32GB/64GB	3200 MT/s	1.35V	16-20-20-38	288-Pin
PC4-24000	DDR4 UDIMM	8GB/16GB	16GB/32GB	3000 MT/s	1.35V	16-18-18-38	288-Pin
PC4-21300	DDR4 UDIMM	8GB/16GB	16GB/32GB	2666 MT/s	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	3600 MT/s	1.35V	18-22-22-38	288-Pin
PC4-25600	DDR4 UDIMM	8GB/16GB/32GB	16GB/32GB/64GB	3200 MT/s	1.35V	16-20-20-38	288-Pin
PC4-24000	DDR4 UDIMM	8GB/16GB	16GB/32GB	3000 MT/s	1.35V	16-18-18-38	288-Pin
PC4-21300	DDR4 UDIMM	8GB/16GB	16GB/32GB	2666 MT/s	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	3600 MT/s	1.35V	18-22-22-38	288-Pin
PC4-25600	DDR4 UDIMM	8GB/16GB/32GB	16GB/32GB/64GB	3200 MT/s	1.35V	16-20-20-38	288-Pin
PC4-24000	DDR4 UDIMM	8GB/16GB	16GB/32GB	3000 MT/s	1.35V	16-18-18-38	288-Pin
PC4-21300	DDR4 UDIMM	8GB/16GB	16GB/32GB	2666 MT/s	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	-	3200 MT/s	1.35V	16-20-20-38	288-Pin
PC4-24000	DDR4 UDIMM	8GB/16GB	-	3000 MT/s	1.35V	16-18-18-38	288-Pin
PC4-21300	DDR4 UDIMM	8GB/16GB	-	2666 MT/s	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	3200 MT/s	1.35V	20-22-22-38	260-Pin
PC4-24000	DDR4 SODIMM	8GB/16GB	16GB/32GB	3000 MT/s	1.35V	18-20-20-38	260-Pin
PC4-21300	DDR4 SODIMM	8GB/16GB	16GB/32GB	2666 MT/s	1.2V	18-18-18-38	260-Pin

UDIMM & SODIMM Line-Up

UDIMM



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

SODIMM



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

BORN COOL.
BUILT FAST.



AG2280Q4X



*Heat spreader included as a free accessory.

Capacity	512GB/1TB/2TB/4TB
Interface	PCIe Gen4 x4
NAND Flash	3D NAND
Sequential Read/Write (MB/s) (Max)**	5000/4400
MTBF (Hours)	>1,500,000
Dimensions (mm)	Single side : (L)80.00 x (W)22.00 x (H)2.25 Double side : (L)80.00 x (W)22.00 x (H)3.50

AG2280P4U



Capacity	256GB/512GB/1TB/2TB
Interface	PCIe Gen3 x4
NAND Flash	3D NAND
Sequential Read/Write (MB/s) (Max)**	3500/3000
MTBF (Hours)	>1,800,000
Dimensions (mm)	Single side : (L)80.00 x (W)22.00 x (H)3.75 Double side : (L)80.00 x (W)22.00 x (H)5.0

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

DOMINATE SPEED. OWN THE WIN.



AG2280Q4U



*Heat sink included as a free accessory.

Capacity	512GB/1TB/2TB/4TB/8TB
Interface	PCIe Gen4 x4
NAND Flash	3D NAND
Sequential Read/Write (MB/s) (Max)**	7400/7000
MTBF (Hours)	>1,600,000
Dimensions (mm)	Single side : (L)80.00 x (W)22.00 x (H)2.25 Double side : (L)80.00 x (W)22.00 x (H)3.50

AG2280F4U

Coming Soon

Capacity	1TB/2TB/4TB
Interface	PCIe Gen5 x4
NAND Flash	3D NAND
Sequential Read/Write (MB/s) (Max)**	14000/13000
MTBF (Hours)	>1,600,000
Dimensions (mm)	Single side : (L)80.00 x (W)22.00 x (H)3.50

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

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