



GAMING MEMORY COLLECTION



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Born for Gaming Enthusiasts.

Thermaltake continues to drive its core values of Excellent Quality, Unique Design, Diverse Combinations and Boundless Creativity to provide high-performance products. We continue to explore new possibilities with PC hardware and continue our passion for creating next level gaming peripherals. Now we have taken a leap forward to deliver performance memory to more gaming enthusiasts.



EMBRACE THE NEW
GENERATION OF MEMORY

DDR5





TOUGHRAM RC DDR5 MEMORY

4800 | 5200 | 5600 MHz (2x16GB)

As our first DDR5 memory kit, the TOUGHRAM RC DDR5 memory comes with frequencies of 4800MHz, 5200MHz and 5600MHz and delivers faster speeds and better performance than the previous generation. With doubled bank group architecture, the new TOUGHRAM RC DDR5 enhances access availability and brings you higher capacities without lag, leading the way to next-gen memory.



- Built-in Power Management IC (PMIC) enhances power supply stability with low operating voltage.
- On-die error correcting code (ECC) provides improved stability and reliability
- Screened ICs provides optimal frequency and performance
- Aluminum heat spreader delivers exceptional heat dissipation
- Real-time temperature, frequency and performance monitoring
- Compatible with Floe RC & Floe RC Ultra series
- Supports Intel® Core™ 12th series CPU
- Intel XMP 3.0 ready

Specifications

Memory Type	DDR5
Module Type	DIMM
Package Memory Pin	288
Warranty	Limited Lifetime Warranty

TOUGHRAM RC DDR5 32GB Kit (2x16GB) 4800 / 5200 / 5600MHz

Model Name	TOUGHRAM RC DDR5 4800	TOUGHRAM RC DDR5 5200	TOUGHRAM RC DDR5 5600
Part Number	RA50D516GX2-4800C40A	RA50D516GX2-5200C38A	RA50D516GX2-5600C36A
Speed	4800 MHz	5200 MHz	5600 MHz
Capacity	32GB Kit (2x16GB)	32GB Kit (2x16GB)	32GB Kit (2x16GB)
Tested Latency	40	38	36
Voltage	1.1V	1.15V	1.25V
Performance Profile	default	XMP 3.0 Ready	
Compatibility	Intel Z690		

TOUGHRAM RC DDR4 MEMORY

3200 | 3600 | 4000 | 4400 MHz (2x8GB)

Designed for the Floe RC 240/360 CPU & Memory Cooler Series, TOUGHRAM RC incorporates thoroughly-screened ICs to provide optimal frequency and response time performance.

- Screened ICs provides optimal frequency and performance
- Aluminum heat spreader delivers exceptional heat dissipation
- Real-time temperature, frequency and performance monitoring
- Compatible with Floe RC Ultra, Floe RC and mainstream motherboards



Specifications

Memory Type	DDR4
Module Type	DIMM
Package Memory Pin	288
Performance Profile	XMP 2.0 Ready
Warranty	Limited Lifetime Warranty

TOUGHRAM RC

Model Name	TOUGHRAM RC DDR4 3200	TOUGHRAM RC DDR4 3600
Part Number	RA24D408GX2-3200C16A	RA24D408GX2-3600C18A
Speed	3200 MHz	3600 MHz
Capacity	16GB Kit (2x8GB)	16GB Kit (2x8GB)
Tested Latency	16	18
Voltage	1.35 V	1.35 V
Compatibility	Intel 600, 500, 400, 300, 200, 100, X299 Series, AMD X570, B550	

Model Name	TOUGHRAM RC DDR4 4000	TOUGHRAM RC DDR4 4400
Part Number	RA24D408GX2-4000C19A	RA24D408GX2-4400C19A
Speed	4000 MHz	4400 MHz
Capacity	16GB Kit (2x8GB)	16GB Kit (2x8GB)
Tested Latency	19	19
Voltage	1.35 V	1.45 V
Compatibility	Intel 600, 500, 400, 300, X299 Series, AMD X570, B550	

FLOE RC ULTRA 240/360

CPU & Memory AIO Liquid Cooler

The Floe RC Ultra incorporates powerful PWM radiator fans with a maximum speed of 2500 RPM, and is equipped with LCD screens for the CPU and memory water blocks, giving users full control of performance monitoring and personalized visual effects.



Fully Customizable with TT RGB Plus

Simply monitor frequency and real-time temperature, or upload a gif to add extra flair with the TT RGB Plus 2.0 software.



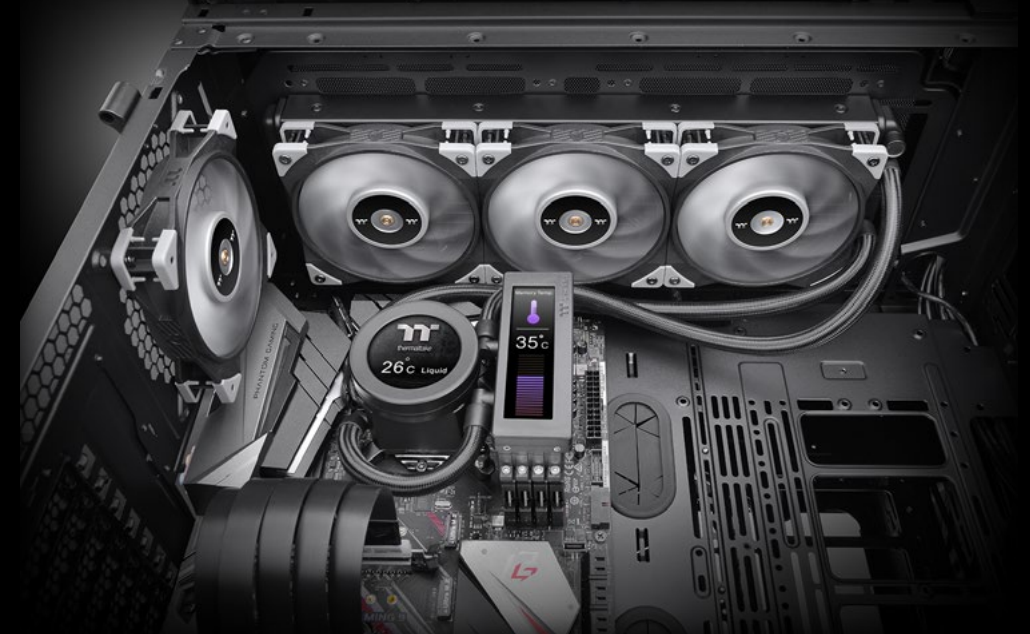
Exceptional Cooling Performance

Equipped with powerful TOUGHFAN 12 Turbo PWM radiator fans which run at speeds ranging from 500 RPM to 2500 RPM, the Floe RC Ultra provides superb cooling performance for your CPU and RAM.



Simple Setup

The Floe RC Ultra provides easy installation and maintenance-free operation, requiring only a minimal amount of space in the chassis.



Paired with TOUGHRAM RC

The Floe RC Ultra requires TOUGHRAM RC DDR4 or DDR5 memory modules to pair with, the ICs are thoroughly-screened for optimal frequency and response times.



Specifications

Floe RC Ultra 240

Compatibility	CPU Socket	Intel LGA 2066/2011-3/2011/1366/ 1200/1156/1155/1151/1150 AMD AM4/ AM3+/AM3/AM2+/AM2/FM2/FM1
	Memory	TOUGHRAM RC Series
Water Block	Material	Copper
Pump	Motor Speed	3200 RPM
	Rated Voltage	12V
	Rated Current	0.38A
	Power Input	4.56W
CPU Display	Rated Voltage	5V
	Power Input	11.5W
	Display Type	2.1" TFT-LCD
	Display Resolution	480x480 (RGB) px
Memory Display	Rated Voltage	5V
	Power Input	14W
	Display Type	3.9" TFT-LCD
	Display Resolution	128x480 (RGB) px
Display Support	Interface	Micro USB to USB (9PIN)
	System Compatibility	Windows 7 / 8 / 8.1 / 10
Fan	Dimension	120 x 120 x 25mm
	Speed	PWM 500~2500 R.P.M (2510-4PIN)
	Noise Level	28.1 dB-A
	Power Input	2.76W (one fan)
	Rated Voltage	12V
	Rated Current	0.23A (one fan)
	Max. Air Flow	72.69 CFM (one fan)
	Max. Pressure	3.78 mm-H2O (one fan)
Radiator	Dimension	273 x 120 x 27mm
	Material	Aluminum
Tube	Length	400 mm
	Material	Rubber

Floe RC Ultra 360

Compatibility	CPU Socket	Intel LGA 2066/2011-3/2011/1366/ 1200/1156/1155/1151/1150 AMD AM4/ AM3+/AM3/AM2+/AM2/FM2/FM1
	Memory	TOUGHRAM RC Series
Water Block	Material	Copper
Pump	Motor Speed	3200 RPM
	Rated Voltage	12V
	Rated Current	0.38A
	Power Input	4.56W
CPU Display	Rated Voltage	5V
	Power Input	11.5W
	Display Type	2.1" TFT-LCD
	Display Resolution	480x480 (RGB) px
Memory Display	Rated Voltage	5V
	Power Input	14W
	Display Type	3.9" TFT-LCD
	Display Resolution	128x480 (RGB) px
Display Support	Interface	Micro USB to USB (9PIN)
	System Compatibility	Windows 7 / 8 / 8.1 / 10
Fan	Dimension	120 x 120 x 25mm
	Speed	PWM 500~2500 R.P.M (2510-4PIN)
	Noise Level	28.1 dB-A
	Power Input	2.76W (one fan)
	Rated Voltage	12V
	Rated Current	0.23A (one fan)
	Max. Air Flow	72.69 CFM (one fan)
	Max. Pressure	3.78 mm-H2O (one fan)
Radiator	Dimension	395 x 120 x 27mm
	Material	Aluminum
Tube	Length	400 mm
	Material	Rubber

FLOE RC240/360

CPU & Memory AIO Liquid Cooler

As the world's first CPU & memory AIO liquid cooler, the Floe RC240/360 provides superb overclocking and gaming experience whilst enjoying high standard cooling performance.



Floe RC 240 Snow Edition

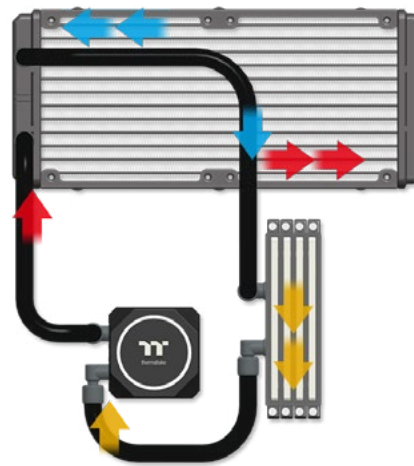


Floe RC 360 Snow Edition

Exclusive All-In-One Design

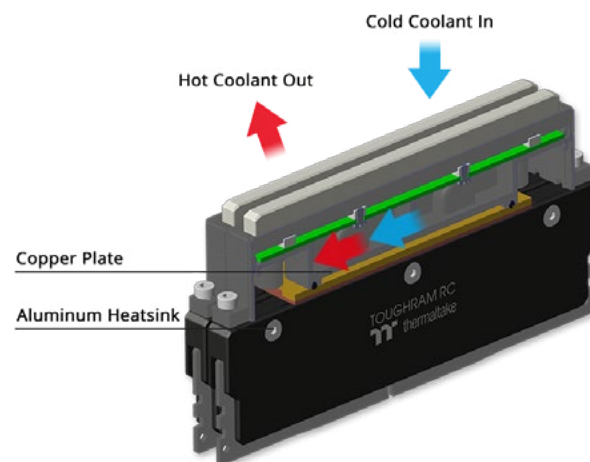
Floe RC is a high-quality all-in-one cooling solution, which includes high performance water blocks, radiator, ARGB controller, and high airflow 120mm fans. Compatible with TOUGHRAM RC memory modules, the Floe RC provides a simple and intuitive all-in-one solution.

Note: Please note the Floe RC only pairs with TOUGHRAM RC memory modules (sold separately).



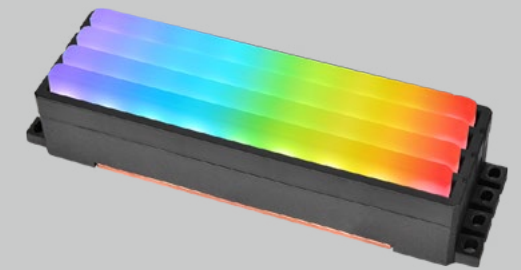
Exceptional Cooling Performance

Optimized for CPU and RAM cooling, the flow design runs through the CPU waterblock, radiator and then memory waterblock to achieve maximum cooling efficiency and thermal dissipation.



16.8M RGB Illumination for Memory Waterblock

The memory waterblock comprises of four lighting strips, delivering 16.8M RGB color across 36 super-bright addressable LEDs for stunning RGB illumination.



RGB Sync Software Supported

Designed to synchronize with ASUS Aura Sync, GIGABYTE RGB Fusion 2.0, MSI Mystic Light Sync and ASRock Polychrome RGB. The Floe RC supports motherboards equipped with 5V addressable RGB header, allowing you to control lighting effects on your motherboard directly.





Specifications

FLOE RC240

CPU & Memory AIO Liquid Cooler

Part Number	Black: CL-W271-PL12SW-A Snow: CL-W330-PL12WT-A
Water Block	Material: Copper
Pump	Motor Speed: 3600 RPM
	Rated Voltage: 12V & 5V
	Power Input: 12V - 3.9W, 5V - 1.06W
Fan	Dimension: 120 x 120 x 25 mm
	Speed: PWM 500~1500 R.P.M (2510-4PIN)
	Noise Level: 25.8 dB-A
	Power Input: 12V- 1.44 W, 5V - 1.6W (one fan)
	Rated Voltage: 12 V & 5V
	Max. Air Flow: 56.45 CFM
	Max. Pressure: 1.59 mm-H2O
	LED Control: ARGB controller or 5V addressable RGB header on motherboard
Radiator	Dimension: 273 x 120 x 27 mm
Tube	Length: 400 mm
	Material: Rubber

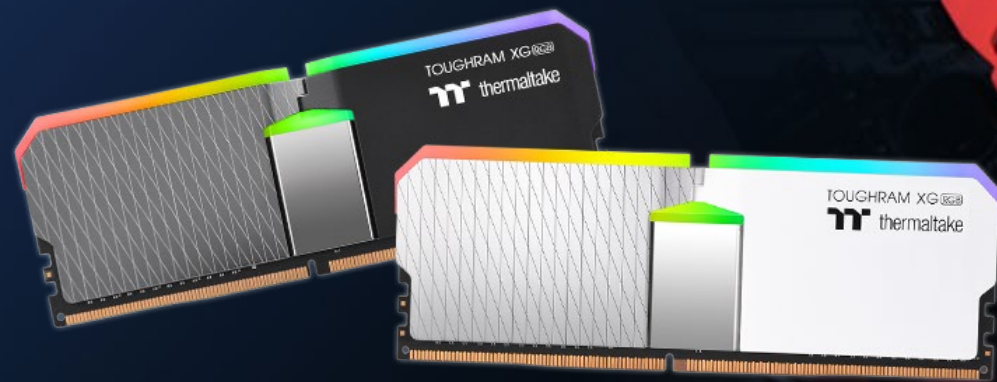
FLOE RC360

CPU & Memory AIO Liquid Cooler

Part Number	Black: CL-W290-PL12SW-A Snow: CL-W331-PL12WT-A
Water Block	Material: Copper
Pump	Motor Speed: 3600 RPM
	Rated Voltage: 12V & 5V
	Power Input: 12V - 3.9W, 5V - 1.06W
Fan	Dimension: 120 x 120 x 25 mm
	Speed: PWM 500~1500 R.P.M (2510-4PIN)
	Noise Level: 25.8 dB-A
	Power Input: 12V- 1.44 W, 5V - 1.6W (one fan)
	Rated Voltage: 12 V & 5V
	Max. Air Flow: 56.45 CFM
	Max. Pressure: 1.59 mm-H2O
	LED Control: ARGB controller or 5V addressable RGB header on motherboard
Radiator	Dimension: 394 x 120 x 27 mm
Tube	Length: 400 mm
	Material: Rubber

TOUGHRAM XG RGB DDR4 MEMORY SERIES

3600 | 4000 | 4400 | 4600MHz



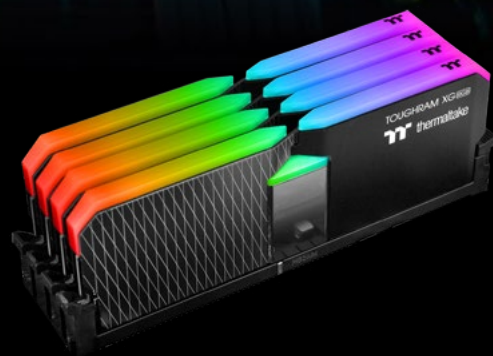
Available in **BLACK** or **WHITE**



thermaltake

High Lumen Addressable LEDs

16 super-bright addressable LEDs deliver 16.8M full spectrum RGB color with dynamic lighting effects to bring your gaming system to life.



Tightly-Screened ICs

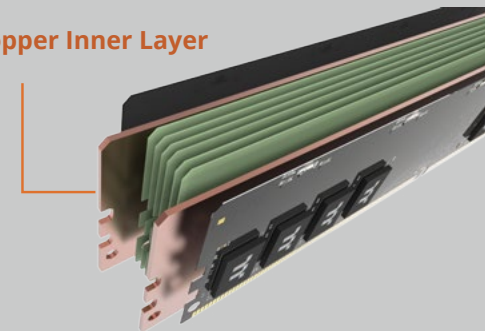
Memory chips are thoroughly-screened to provide optimal frequency and response time performance.



2oz Copper PCB

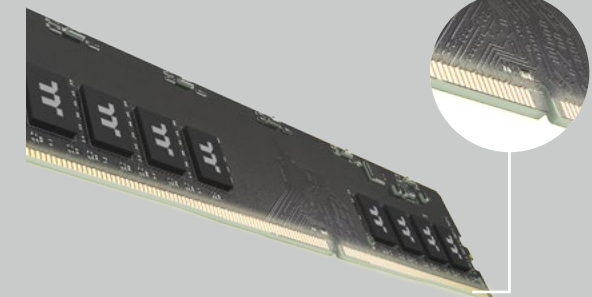
Specially optimized 10-layer PCB with 2oz copper inner layer provides enhanced electrical conduction to deliver uncompromised speed and reliability for maximum overclocking performance.

2X Copper Inner Layer



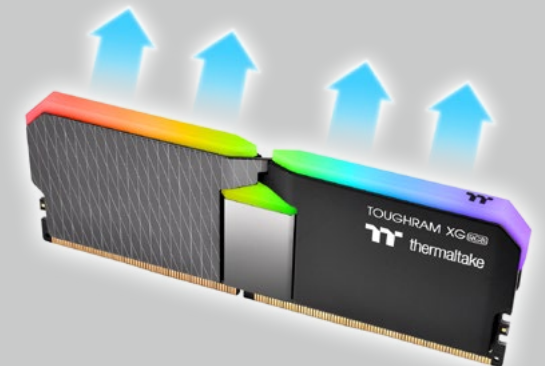
High Quality Gold Fingers

Use of 10μ gold fingers for enhanced durability and high wear resistance.



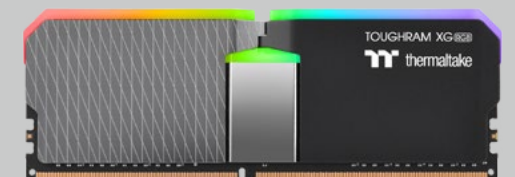
Aluminum Heat Spreader

Use of brushed aluminum heat spreader delivers exceptional heat dissipation to meet high-performance needs.



Sleek Heat Spreader Design

Use of brushed aluminum heat spreader delivers exceptional heat dissipation to meet high-performance needs. High Quality Gold Fingers Use of 10μ gold fingers for enhanced durability and high wear resistance.





TOUGHRAM XG RGB 16GB Kit (2x8GB) 3600 / 4000 / 4400 / 4600MHz

Model Name	TOUGHRAM XG RGB DDR4 3600-Black	TOUGHRAM XG RGB DDR4 3600-White	TOUGHRAM XG RGB DDR4 4000-Black	TOUGHRAM XG RGB DDR4 4000-White
Part Number	R016D408GX2-3600C18A	RG06D408GX2-3600C18B	R016D408GX2-4000C19A	RG06D408GX2-4000C19B
Speed	3600 MHz	3600 MHz	4000 MHz	4000 MHz
Capacity	16GB Kit (2x8GB)	16GB Kit (2x8GB)	16GB Kit (2x8GB)	16GB Kit (2x8GB)
Tested Latency	18	18	19	19
Voltage	1.35 V	1.35 V	1.35 V	1.35 V
Compatibility	Intel 600, 500, 400, 300, 200, 100, X299 Series, AMD X570, B550			

Model Name	TOUGHRAM XG RGB DDR4 4400-Black	TOUGHRAM XG RGB DDR4 4400-White	TOUGHRAM XG RGB DDR4 4600-Black	TOUGHRAM XG RGB DDR4 4600-White
Part Number	R016D408GX2-4400C19A	RG06D408GX2-4400C19B	R016D408GX2-4600C19A	RG06D408GX2-4600C19B
Speed	4400 MHz	4400 MHz	4600 MHz	4600 MHz
Capacity	16GB Kit (2x8GB)	16GB Kit (2x8GB)	16GB Kit (2x8GB)	16GB Kit (2x8GB)
Tested Latency	19	19	19	19
Voltage	1.45 V	1.45 V	1.5 V	1.5 V
Compatibility	Intel 600, 500, 400, 300, 200, 100, X299 Series, AMD X570, B550		Intel 600, 500, 400, 300, 200, 100, X299 Series AMD X570, B550	

Specifications

Memory Type	DDR4
Module Type	DIMM
Package Memory Pin	288
Performance Profile	XMP 2.0 Ready
Warranty	Limited Lifetime Warranty

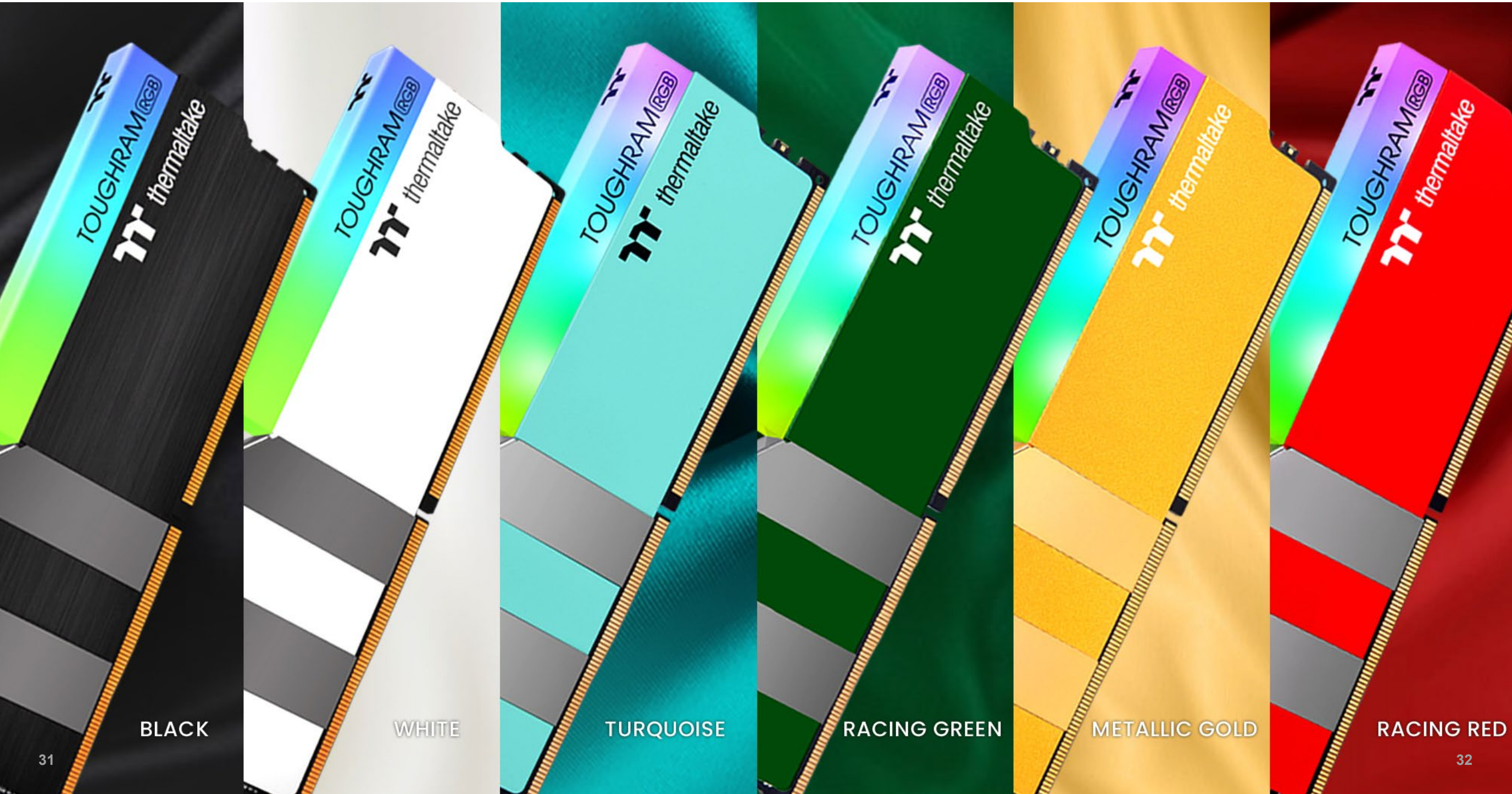
TOUGHRAM XG RGB 32GB Kit (2x16GB) / 64GB Kit (2x32GB) 3600 / 4000MHz

Model Name	TOUGHRAM XG RGB DDR4 3600-Black	TOUGHRAM XG RGB DDR4 3600-White	TOUGHRAM XG RGB DDR4 3600-Black	TOUGHRAM XG RGB DDR4 3600-White
Part Number	R016D416GX2-3600C18A	RG06D416GX2-3600C18B	R016R432GX2-3600C18A	RG06R432GX2-3600C18B
Speed	3600 MHz	3600 MHz	3600 MHz	3600 MHz
Capacity	32GB Kit (2x16GB)	32GB Kit (2x16GB)	64GB Kit (2x32GB)	64GB Kit (2x32GB)
Tested Latency	18	18	18	18
Voltage	1.35 V	1.35 V	1.35 V	1.35 V
Compatibility	Intel 600, 500, 400, 300, 200, 100, X299 Series, AMD X570, B550			

Model Name	TOUGHRAM XG RGB DDR4 4000-Black	TOUGHRAM XG RGB DDR4 4000-White	TOUGHRAM XG RGB DDR4 4000-Black	TOUGHRAM XG RGB DDR4 4000-White
Part Number	R016D416GX2-4000C19A	RG06D416GX2-4000C19B	R016R432GX2-4000C19A	RG06R432GX2-4000C19B
Speed	4000 MHz	4000 MHz	4000 MHz	4000 MHz
Capacity	32GB Kit (2x16GB)	32GB Kit (2x16GB)	64GB Kit (2x32GB)	64GB Kit (2x32GB)
Tested Latency	19	19	19	19
Voltage	1.35 V	1.35 V	1.35 V	1.35 V
Compatibility	Intel 600, 500, 400, 300, 200, 100, X299 Series, AMD X570, B550			

TOUGHRAM RGB

COLLECTION



BLACK

WHITE

TURQUOISE

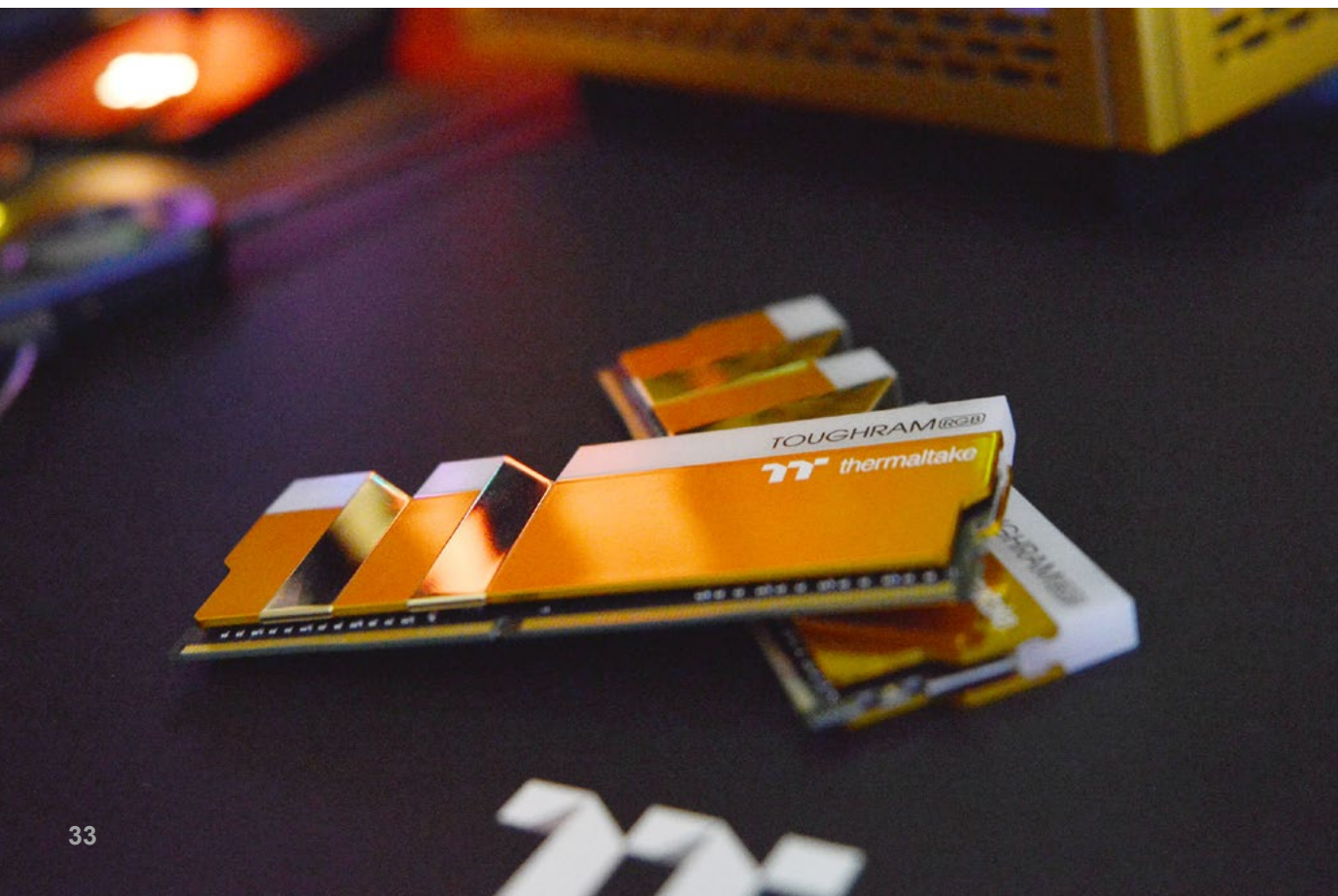
RACING GREEN

METALLIC GOLD

RACING RED

CREATE DIFFERENTLY

We aim to provide more colored and tailored products to the audience by allowing them to have more building options and to be able to select the colors that best reflect their moods and personality. Thermaltake is ready to present to all PC enthusiasts a feast for the eyes!





TOUGHRAM RGB DDR4 MEMORY SERIES

3000 | 3200 | 3600 | 4000 | 4400 | 4600MHz

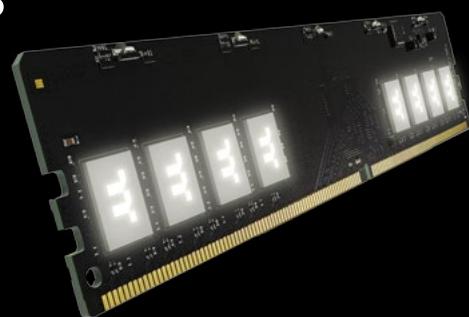
The TOUGHRAM RGB DDR4 memory brings stunning RGB and performance to your gaming system. The module is controlled by the TOUGHRAM RGB software to light up your system. TOUGHRAM RGB is also compatible with TT RGB PLUS product lines for seamless color coordination of our RGB ecosystem.





Tightly-Screened ICs

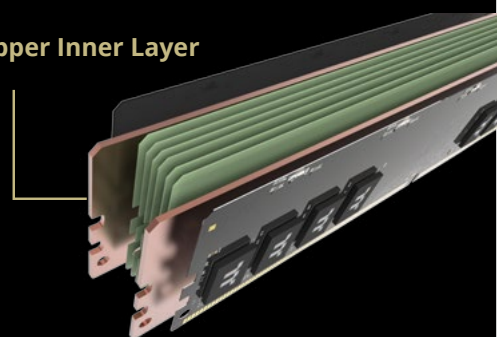
Memory chips are thoroughly-screened to provide optimal frequency and response time performance.



2oz Copper PCB

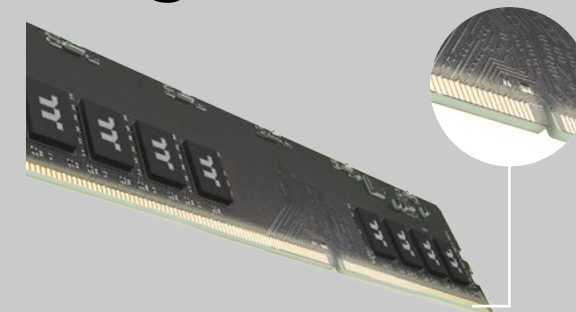
Specially optimized 10-layer PCB with 2oz copper inner layer provides enhanced electrical conduction to deliver uncompromised speed and reliability for maximum overclocking performance.

2X Copper Inner Layer



High Quality Gold Fingers

Use of 10 μ gold fingers for enhanced durability and high wear resistance.



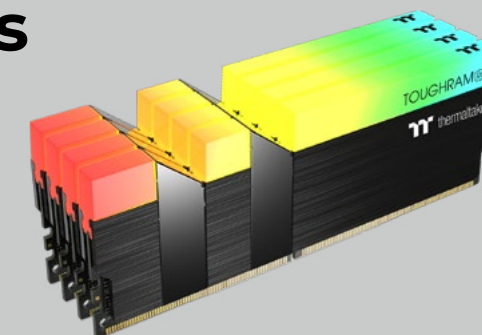
Aluminum Heat Spreader

Use of brushed aluminum heat spreader delivers exceptional heat dissipation to meet high-performance needs.



High Lumen Addressable LEDs

10 super-bright addressable LEDs deliver 16.8M full spectrum RGB color with dynamic lighting effects to bring your gaming system to life.





TOUGHRAM RGB 16GB Kit (2x8GB)

3600MHz

Specifications

Memory Type	DDR4
Module Type	DIMM
Package Memory Pin	288
Performance Profile	XMP 2.0 Ready
Warranty	Limited Lifetime Warranty

Model Name	TOUGHRAM RGB DDR4 3600-Racing Red	TOUGHRAM RGB DDR4 3600-Metallic Gold	TOUGHRAM RGB DDR4 3600-Turquoise	TOUGHRAM RGB DDR4 3600-Racing Green
Part Number	RG25D408GX2-3600C18A	RG26D408GX2-3600C18A	RG27D408GX2-3600C18A	RG28D408GX2-3600C18A
Speed	3600 MHz	3600 MHz	3600 MHz	3600 MHz
Capacity	16GB Kit (2x8GB)	16GB Kit (2x8GB)	16GB Kit (2x8GB)	16GB Kit (2x8GB)
Tested Latency	18	18	18	18
Voltage	1.35 V	1.35 V	1.35 V	1.35 V
Compatibility	Intel 600, 500, 400, 300, 200, 100, X299 Series, AMD X570, B550			

TOUGHRAM RGB 16GB Kit (2x8GB)

3000 / 3200 / 3600 / 4000 / 4400 / 4600 MHz

Model Name	TOUGHRAM RGB DDR4 3000-Black	TOUGHRAM RGB DDR4 3200-Black	TOUGHRAM RGB DDR4 3600-Black
Part Number	R009D408GX2-3000C16B	R009D408GX2-3200C16A	R009D408GX2-3600C18B
Speed	3000 MHz	3200 MHz	3600 MHz
Capacity	16GB Kit (2x8GB)	16GB Kit (2x8GB)	16GB Kit (2x8GB)
Tested Latency	16	16	18
Voltage	1.35 V	1.35 V	1.35 V
Compatibility	Intel 500, 400, 300, 200, 100, X299 Series, AMD X570, B550	Intel 600, 500, 400, 300, 200, 100, X299 Series AMD X570, B550	

Model Name	TOUGHRAM RGB DDR4 4000-Black	TOUGHRAM RGB DDR4 4400-Black	TOUGHRAM RGB DDR4 4600-Black
Part Number	R009D408GX2-4000C19A	R009D408GX2-4400C19A	R009D408GX2-4600C19A
Speed	4000 MHz	4400 MHz	4600 MHz
Capacity	16GB Kit (2x8GB)	16GB Kit (2x8GB)	16GB Kit (2x8GB)
Tested Latency	19	19	19
Voltage	1.35 V	1.45 V	1.5 V
Compatibility	Intel 600, 500, 400, 300, X299 Series, AMD X570, B550	Intel 600, Z590, Z490 AMD X570, B550	

Model Name	TOUGHRAM RGB DDR4 3200-White	TOUGHRAM RGB DDR4 3600-White
Part Number	R022D408GX2-3200C16A	R022D408GX2-3600C18A
Speed	3200 MHz	3600 MHz
Capacity	16GB Kit (2x8GB)	16GB Kit (2x8GB)
Tested Latency	16	18
Voltage	1.35 V	1.35 V
Compatibility	Intel 600, 500, 400, 300, 200, 100, X299 Series, AMD X570, B550	

Model Name	TOUGHRAM RGB DDR4 4000-White	TOUGHRAM RGB DDR4 4400-White	TOUGHRAM RGB DDR4 4600-White
Part Number	R022D408GX2-4000C19A	R022D408GX2-4400C19A	R022D408GX2-4600C19A
Speed	4000 MHz	4400 MHz	4600 MHz
Capacity	16GB Kit (2x8GB)	16GB Kit (2x8GB)	16GB Kit (2x8GB)
Tested Latency	19	19	19
Voltage	1.35 V	1.45 V	1.5 V
Compatibility	Intel 600, 500, 400, 300, X299 Series, AMD X570, B550	Intel 600, Z590, Z490, AMD X570, B550	

TOUGHRAM RGB 64GB Kit (2x32GB)

3200 / 3600MHz

Model Name	TOUGHRAM RGB DDR4 3200-Black	TOUGHRAM RGB DDR4 3600-Black	TOUGHRAM RGB DDR4 3200-White	TOUGHRAM RGB DDR4 3600-White
Part Number	R009R432GX2-3200C16A	R009R432GX2-3600C18A	R022R432GX2-3200C16A	R022R432GX2-3600C18A
Speed	3200 MHz	3600 MHz	3200 MHz	3600 MHz
Capacity	64GB Kit (2x32GB)	64GB Kit (2x32GB)	64GB Kit (2x32GB)	64GB Kit (2x32GB)
Tested Latency	16	18	16	18
Voltage	1.35 V	1.35 V	1.35 V	1.35 V
Compatibility	Intel 600, 500, 400, 300 Series, AMD X570, B550			

TOUGHRAM RGB 32GB Kit (2x16GB)

3200 / 3600MHz

Model Name	TOUGHRAM RGB DDR4 3200-Black	TOUGHRAM RGB DDR4 3600-Black	TOUGHRAM RGB DDR4 3200-White	TOUGHRAM RGB DDR4 3600-White
Part Number	R009D416GX2-3200C16A	R009D416GX2-3600C18A	R022D416GX2-3200C16A	R022D416GX2-3600C18A
Speed	3200 MHz	3600 MHz	3200 MHz	3600 MHz
Capacity	32GB Kit (2x16GB)	32GB Kit (2x16GB)	32GB Kit (2x16GB)	32GB Kit (2x16GB)
Tested Latency	16	18	16	18
Voltage	1.35 V	1.35 V	1.35 V	1.35 V
Compatibility	Intel 600, 500, 400, 300, X299 Series, AMD X570, B550			





TOUGHRAM DDR4 MEMORY

3200 | 3600 | 4000 | 4400MHz

The TOUGHRAM delivers outstanding gaming performance with its stunning aesthetical design. Its pure aluminum heat-sinks enhances heat dissipation while offering durable construction. On top of that, the brushed aluminum heat sinks and the 98g/0.22lb modules provide a more sturdy touch for the user, revealing true elegance from inside out.

Crafted with Style

Either black or white, it will fit your style. TOUGHRAM's exquisite heat spreader is not only stylish, but the overall construction is durable and is finished with a high-quality alloy providing a solid touch.



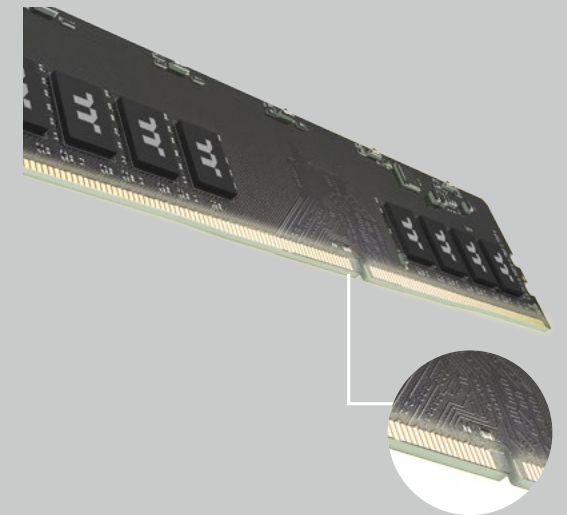
Tightly-Screened ICs

Memory chips are thoroughly-screened to provide optimal frequency and response time performance.



High Quality Gold Fingers

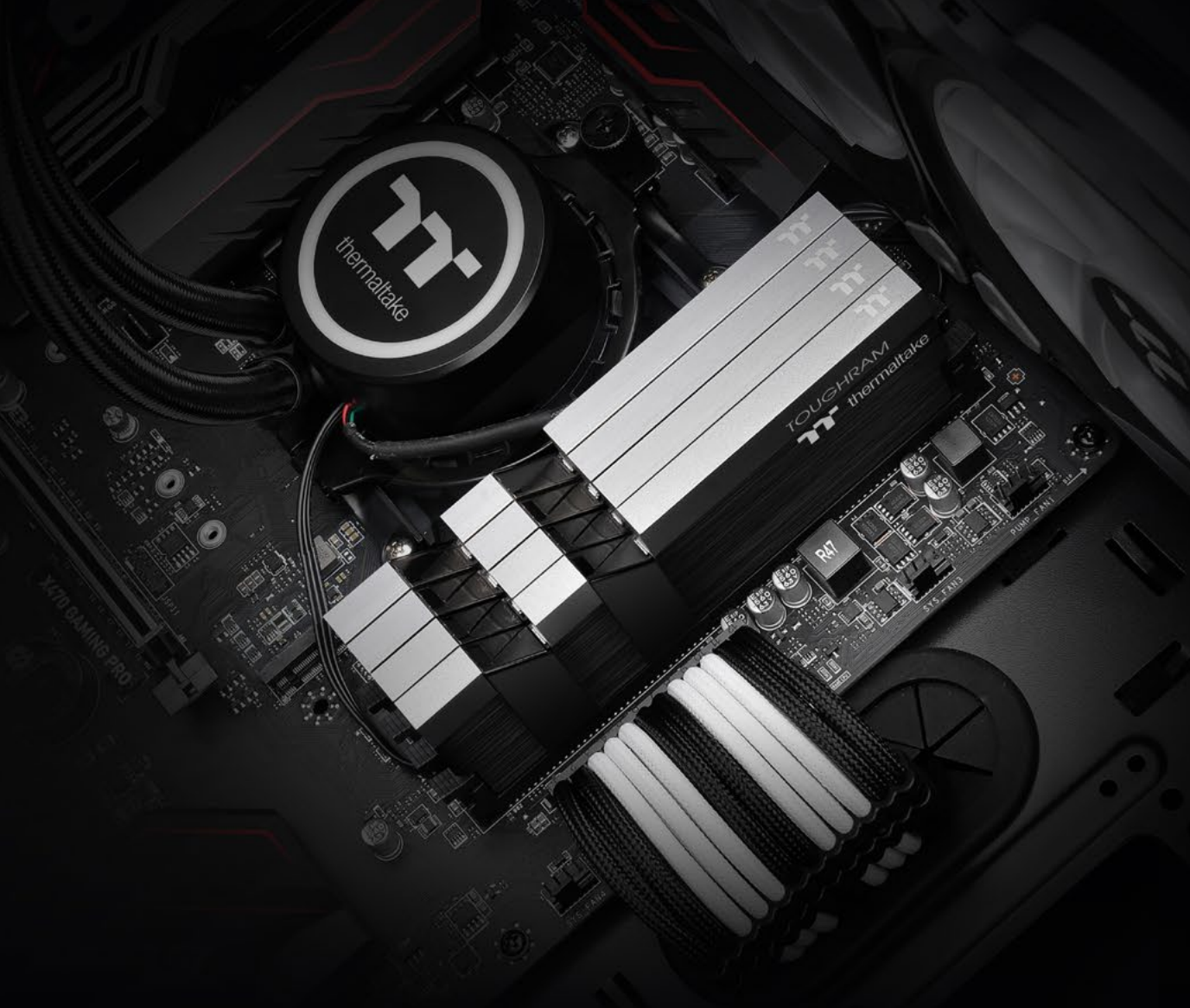
Use of 10 μ gold fingers for enhanced durability and high wear resistance.



Aluminum Heat Spreader

Use of brushed aluminum heat spreader delivers exceptional heat dissipation to meet high-performance needs.





Specifications

Memory Type	DDR4
Module Type	DIMM
Package Memory Pin	288
Performance Profile	XMP 2.0 Ready
Warranty	Limited Lifetime Warranty

TOUGHRAM-Black

Model Name	TOUGHRAM DDR4 3200-Black	TOUGHRAM DDR4 3600-Black
Part Number	R017D408GX2-3200C16A	R017D408GX2-3600C18A
Speed	3200 MHz	3600 MHz
Capacity	16GB Kit (2x8GB)	16GB Kit (2x8GB)
Tested Latency	16	18
Voltage	1.35 V	1.35 V
Compatibility	Intel 600, 500, 400, 300, 200, 100, X299 Series, AMD X570, B550	

Model Name	TOUGHRAM DDR4 4000-Black	TOUGHRAM DDR4 4400-Black
Part Number	R017D408GX2-4000C19A	R017D408GX2-4400C19A
Speed	4000 MHz	4400 MHz
Capacity	16GB Kit (2x8GB)	16GB Kit (2x8GB)
Tested Latency	19	19
Voltage	1.35 V	1.45 V
Compatibility	Intel 600, 500, 400, 300, X299 Series, AMD X570, B550	

TOUGHRAM-White

Model Name	TOUGHRAM DDR4 3200-White	TOUGHRAM DDR4 3600-White
Part Number	R020D408GX2-3200C16A	R020D408GX2-3600C18A
Speed	3200 MHz	3600 MHz
Capacity	16GB Kit (2x8GB)	16GB Kit (2x8GB)
Tested Latency	16	18
Voltage	1.35 V	1.35 V
Compatibility	Intel 600, 500, 400, 300, 200, 100, X299 Series, AMD X570, B550	

Model Name	TOUGHRAM DDR4 4000-White	TOUGHRAM DDR4 4400-White
Part Number	R020D408GX2-4000C19A	R020D408GX2-4400C19A
Speed	4000 MHz	4400 MHz
Capacity	16GB Kit (2x8GB)	16GB Kit (2x8GB)
Tested Latency	19	19
Voltage	1.35 V	1.45 V
Compatibility	Intel 600, 500, 400, 300, X299 Series, AMD X570, B550	

TOUGHRAM Z-ONE RGB DDR4 MEMORY

3200 | 3600 MHz

Built with high-quality components, the TOUGHRAM Z-ONE RGB delivers high performance with stunning RGB lighting maximized for effortless synchronization with your RGB ecosystem.

- 10-layer PCB construction for enhanced stability
- Aluminum heat spreader delivers exceptional heat dissipation
- 16.8M RGB color across 10 super-bright addressable LEDs
- Real-time temperature, frequency and performance monitoring
- TT RGB PLUS software & 5V Motherboard RGB sync ready



Specifications

Memory Type	DDR4
Compatibility	Intel 600, 500, 400, 300, 200, 100, X299 Series, AMD X570, B550
Module Type	DIMM
Package Memory Pin	288
Performance Profile	XMP 2.0 Ready
Warranty	Limited Lifetime Warranty



TOUGHRAM Z-ONE RGB 16GB Kit (2x8GB) 3200 / 3600MHz

Model Name	TOUGHRAM Z-ONE RGB DDR4 3200		TOUGHRAM Z-ONE RGB DDR4 3600	
Part Number	R019D408GX1-3200C16S	R019D408GX2-3200C16A	R019D408GX1-3600C18S	R019D408GX2-3600C18A
Speed	3200 MHz	3200 MHz	3600 MHz	3600 MHz
Capacity	8GB Kit (1x8GB)	16GB Kit (2x8GB)	8GB Kit (1x8GB)	16GB Kit (2x8GB)
Tested Latency	16	16	18	18
Voltage	1.35V	1.35V	1.35V	1.35V

TOUGHRAM Z-ONE RGB 16GB Kit (2x8GB) 4000 / 4400 / 4600MHz

Model Name	TOUGHRAM Z-ONE RGB DDR4 4000	TOUGHRAM Z-ONE RGB DDR4 4400	TOUGHRAM Z-ONE RGB DDR4 4600
Part Number	R019D408GX2-4000C19A	R019D408GX2-4400C19A	R019D408GX2-4600C19A
Speed	4000 MHz	4400 MHz	4600 MHz
Capacity	16GB Kit (2x8GB)	16GB Kit (2x8GB)	16GB Kit (2x8GB)
Tested Latency	19	19	19
Voltage	1.35 V	1.45 V	1.5 V
Compatibility	Intel 600, X299, 400, 300, 200, 100 Series AMD X570, B550		Intel 600, Z590, Z490 AMD X570, B550



TOUGHRAM Z-ONE DDR4 MEMORY

3200 | 3600 MHz

Featuring tightly-screened ICs, the TOUGHRAM Z-ONE memory is crafted for users that pursue high-stable gaming performance. The heat-sinks incorporate a sleek looking aluminum finishing which provides superior heat dissipation, giving users superb gaming experience.

- Screened ICs provide optimal frequency and performance
- Aluminum heat spreader delivers exceptional heat dissipation
- Real-time temperature, frequency and performance monitoring

Specifications

Memory Type	DDR4
Compatibility	Intel 600, 500, X299, 400, 300, 200, 100 Series AMD X570, B550
Module Type	DIMM
Package Memory Pin	288
Performance Profile	XMP 2.0 Ready
Warranty	Limited Lifetime Warranty

TOUGHRAM Z-ONE

3200 / 3600MHz

Model Name	TOUGHRAM Z-ONE DDR4 3200	TOUGHRAM Z-ONE DDR4 3200	TOUGHRAM Z-ONE DDR4 3600	TOUGHRAM Z-ONE DDR4 3600
Part Number	R010D408GX1-3200C16S	R010D408GX2-3200C16A	R010D408GX1-3600C18S	R010D408GX2-3600C18A
Speed	3200 MHz	3200 MHz	3600 MHz	3600 MHz
Capacity	8GB Kit (1x8GB)	16GB Kit (2x8GB)	8GB Kit (1x8GB)	16GB Kit (2x8GB)
Tested Latency	16	16	18	18
Voltage	1.35 V	1.35 V	1.35 V	1.35 V

Pacific A2 Ultra Memory Water Block

The Pacific A2 Ultra memory water block is equipped with a 3.9" LCD display for monitoring real-time temperature and your PC performance, meanwhile allowing you to add flair to your liquid cooling system.



MEMORY TYPE
SDRAM
CAPACITY AND SIZE
4.2/15.7GB

Superb Heat Convection

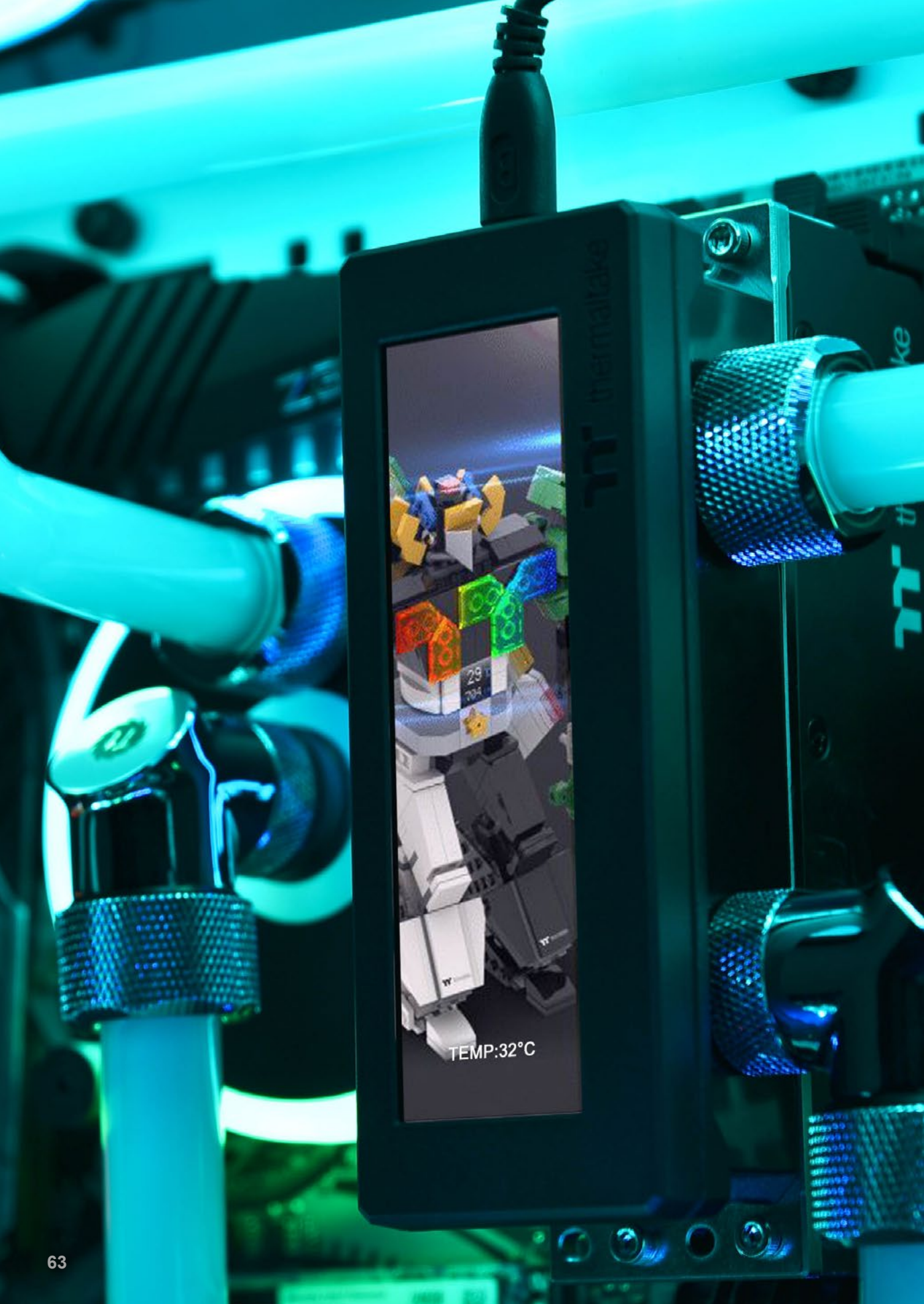
The Pacific A2 comes with four sets of 2mm thick aluminum heat sinks for optimal heat dissipation along with a high quality memory copper base that continuously accelerates heat conductivity.



Customize Your Screen Display

Use TT RGB Plus to customize your favorite images or GIFs for your memory water block display, while monitoring PC components including CPU, GPU, RAM and coolant temperature. Other than that, it allows you to monitor load status and frequency with ease.





Specifications

Pacific A2 Ultra Memory Water Block

Part Number	CL-W333-CU00SW-A	
Dimensions	L133.8 x W43.48 x H76.5 mm	
Compatibility	CPU Socket: DDR3/DDR4	
Material	Copper, Aluminum, PMMA, ABS	
Memory Display	Rated Voltage	5V
	Rated Current	0.28A
	Power Input	1.4W
	Display Type	3.9" TFT-LCD
Display Support	Display Resolution	128x480 (RGB) pixels
	Interface	Micro USB to USB (9PIN)
Display Support	System Compatibility	Windows 7/8/8.1/10
	Contents	Memory Water Block x 1 Memory Heat Sink Modules x 4 Controller x 1

Pacific R2 Ultra Memory LCD Monitor Kit

The Pacific R2 Ultra features a 3.9" LCD display that connects to the TT RGB Plus software to monitor PC performance right away. With support for 4-DIMM memory slots, the Pacific R2 Ultra provides an easier way to illuminate your PC builds.



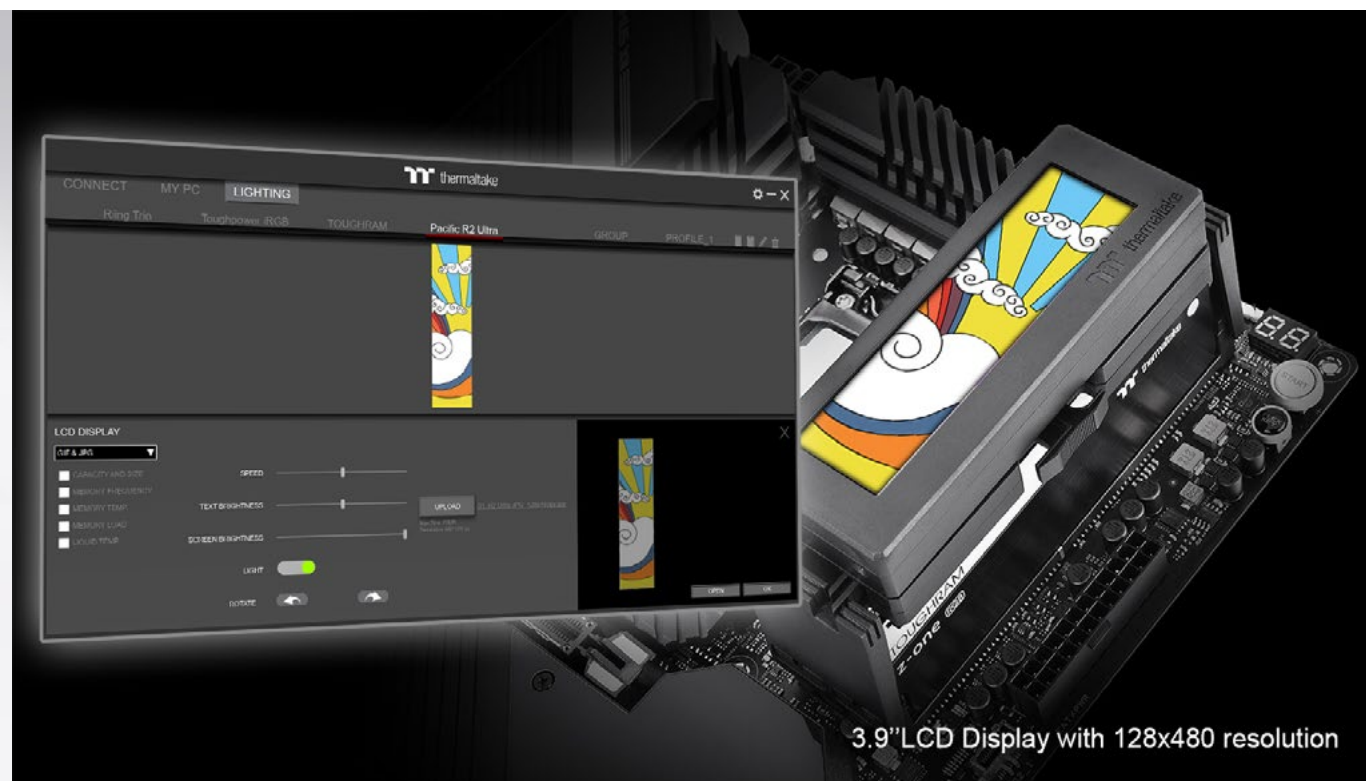
Simple Installation

The R2 Ultra supports any memory modules within the maximum height of 48mm. Just simply clip it on top of your existing memory and connect it with an USB cable to enable the TT RGB Plus software right away.



Customize Your Screen Display

Use TT RGB Plus to customize your favorite images or GIFs for your memory display, while monitoring PC components including CPU, GPU, RAM and coolant temperature. Other than that, it allows you to monitor load status and frequency with ease.



3.9" LCD Display with 128x480 resolution



Specifications

Pacific R2 Ultra Memory LCD Monitor Kit

Part Number	CL-O025-PL00SW-A	
Dimensions	L144.28 x W50 x H71 mm	
Compatibility	DRAM Module Height	Max. 48 mm
Memory Display	Rated Voltage	5V
	Rated Current	0.28A
	Power Input	1.4W
	Display Type	3.9" TFT-LCD
Display Support	Display Resolution	128x480 (RGB) pixels
	Interface	Micro USB to USB (9PIN)
	System Compatibility	Windows 7/8/8.1/10

TT RGB PLUS Ecosystem



The new TT RGB Plus Software integrates the TOUGHRAM Software supporting all configurations including real-time temperature, frequency and performance monitoring. Sync with TT RGB PLUS enabled products to maximize your RGB colors effortlessly all at once.

Note:

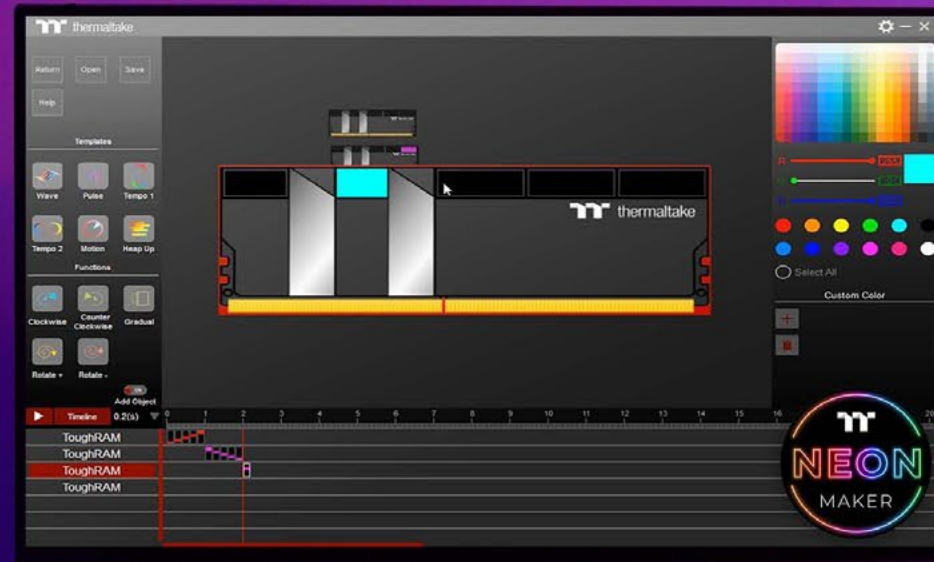
- Make sure to own multiple compatible products to experience the sync function of TT RGB Plus.
- For more supported devices, please go to ttrgbplus.thermaltake.com for more information.

Your MOD, Your WAY.



Light up your system with almost limitless possibilities and synchronize your TT RGB PLUS compatible products to create a RGB ecosystem that is truly unique to you.

Set Up Your Spectacular Lighting



NeonMaker is the new advanced editing software for RGB lighting customization. NeonMaker provides various stunning pre-set lighting effects, this allows users to edit their lighting effects on every single LED light bulb. Users can customize lighting profiles, adjust effects on the timeline and lighting directions which grants access to further customizable lighting options.



Not only will you be able to personalize your lighting effects freely by utilizing the NeonMaker software, but you can also synchronize with the TT RGB Plus software to maximize the control of your RGB effects. The NeonMaker software now supports various components. For more supported devices, please go to www.thermaltake.com/neonmaker for more information.



TT AI Voice Control

Take control of your TT RGB PLUS products with your voice. SyncALL, Say "Hello TT".

Download on the App Store



Android app on Google play



NeonMaker Light Editing Software

NeonMaker is the new advanced editing software for adjusting effects on the timeline and lighting directions.



amazon alexa

Works with Amazon Alexa

All Thermaltake TT RGB PLUS products support Amazon Alexa Voice Service, allowing you to give voice commands to Alexa-enabled devices.

Motherboard RGB Sync Ready

Designed to synchronize with ASUS Aura Sync, GIGABYTE RGB Fusion, MSI Mystic Light Sync and ASRock Polychrome. Supports motherboards equipped with 5V addressable RGB headers, allowing you to control lighting effects directly from the above-mentioned software without installing any extra lighting software or controllers.



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