

Info Kit of RadiX AX6600 WiFi 6 Tri-Band Gaming Router

GNP Product Marketing | Zola Jan. 2023

Tech meets Aesthetic







PRODUCT FEATURES



RadiX AX6600

WiFi 6 Tri-Band Gaming router



2.4GHz + 5GHz + 5GHz

WiFi 6 supports 8-streams on triband simultaneously



Al QoS

Easy to use traffic prioritization



Powerful processor

Quad core chip



Premium coolingHeatsink with heat pipes



Game accelerator
Gaming enrichment features



Tri-Band





Ultra fast tri-band boosts speed up to 6600 Mbps

5.5X faster speed

5GHz-1 AX

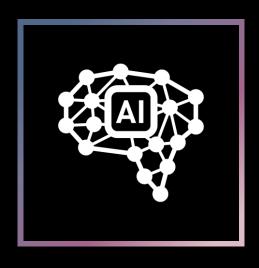
4x4(Tx/Rx) 1024/256-QAM 20/40/80/160MHz, Up to 4804 Mbps

5GHz-2 AX

2x2(Tx/Rx) 1024/256-QAM 20/40/80MHz, Up to 1201 Mbps

2.4GHz AX

2x2(Tx/Rx) 1024/256-QAM 20/40MHz, up to 574Mbps



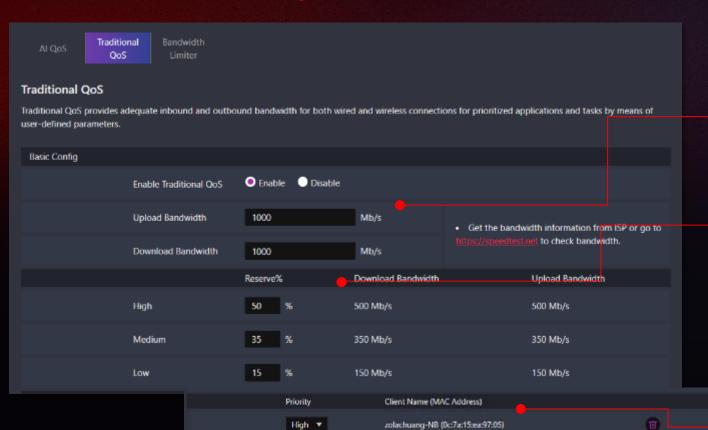
AI QoS

What's QoS?

Quality of service is bandwidth management with the goal of ensuring all/selected clients get satisfactory service.

Traditional QoS





High *

Mediu ▼

Low V

Low *

High ▼

DESKTOP-25QVTMK (38:00:25:0c:86:2c)

DESKTOP-G7AS7G3 (00:e0:4ctb8:32:01)

DESKTOP-2L8G1EQ (70:cf:49:bb:ee:0f)

No Information (42/89/83:#2:77/e2)

Enter the internet speed you have subscribed from your ISP

Enter the percentage of bandwidth you like to reserve for groups of priority High, Medium and Low.

Assign your **clients** to High, Medium or Low groups.





Al QoS

Ready out of the box

Dynamic traffic prioritization

Easy to use; change via APP / GUI

MSI respects your privacy

Al engine prioritizes network traffic by recognizing the connection pattern, it does not read packet content

Al QoS-Gaming



The AI engine recognizes games from PC, mobile, console, and cloud devices and accelerates gaming

Reduce 90% ping rate*

*The result is based on MSI lab test data. Actual performance may be affected by network conditions and other factors.

Al QoS-Gaming



AI QoS-WFH



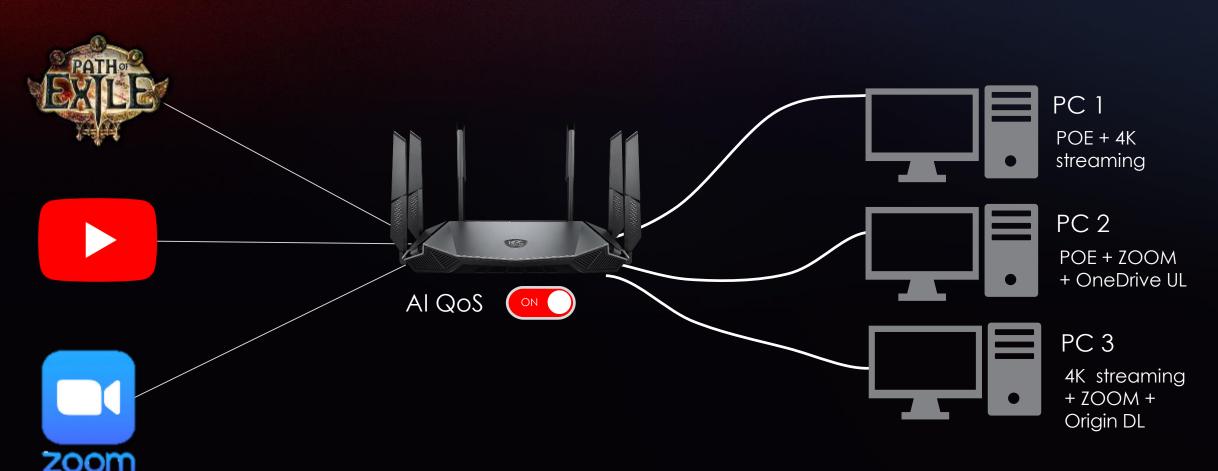
AI QoS-AI AUTO



Al QoS Test-Setup



- Router is connected to several client devices
- Client devices run applications to consume all bandwidth



Al QoS Test result- gaming



Path of Exile (POE)
Recording the ping value from PC 1 and PC 2

RadiX AI QoS

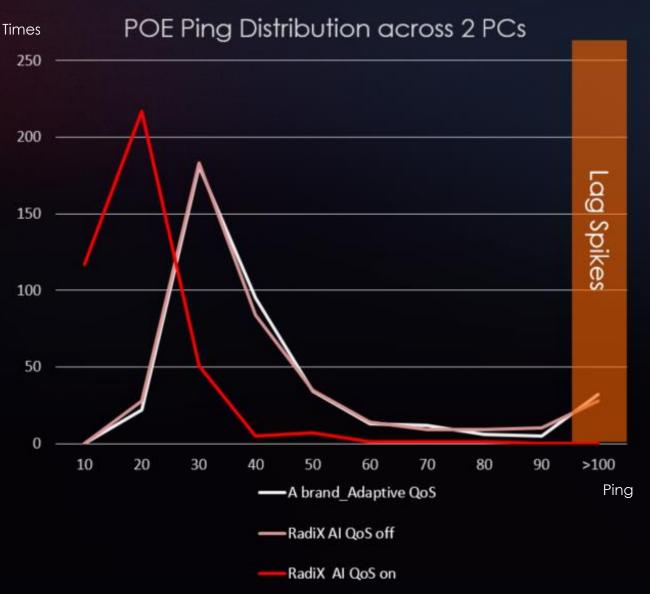
S

A Brand QoS

73 Max. Ping 671

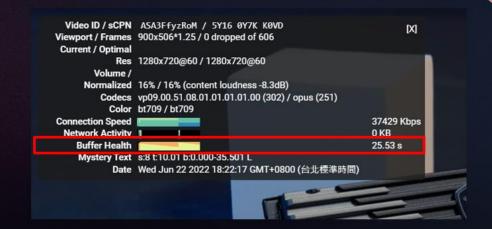
14.8 Avg. Ping 47.3

10 time Ping > 100 32 times



Al QoS Test result- streaming

- YouTube buffer health shows how many seconds the video you're watching has been pre-downloaded, once that hits 0, your video might get stuck the next second
- Recording the video buffer health on PC 1 and PC 3

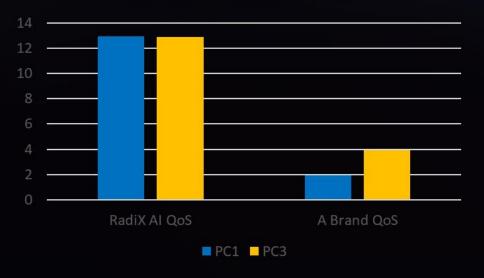




12.9s Avg. Buffer 2.9s

0 time Buffer = 0 71 times

YouTube buffer health



AI QoS Test result- WFH

Zoom provides real-time packet loss log

Recording the rate from PC 2 and PC 3

RadiX Al QoS

A Brand QoS

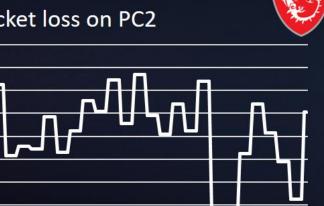
Avg. packet loss 4.25% 0%

Zoom Packet loss on PC2

16% 14% 12%

10% 8%

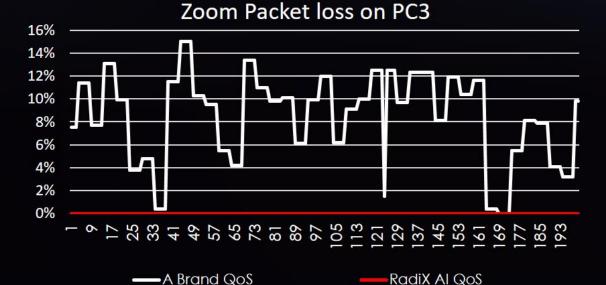
> 6% 4% 2% 0%



-RadiX Al QoS



-A Brand QoS





Game Accelerator

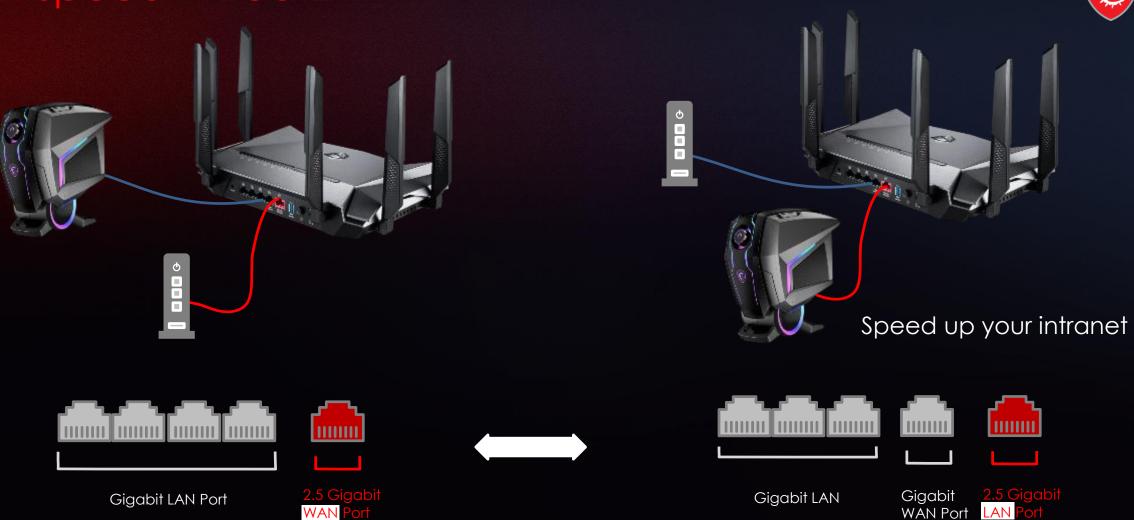
MSI First





Other brand devices

High-speed Wired LAN



Reconfigure the 2.5 Gigabit Port as a LAN Port to adapt to your network.

Next-gen entertainment



- Enjoy VR/AR entertainment
- Keep network latency on single digits millisecond, no lag, no motion sickness





Cooling

Graphene coating Heatsink

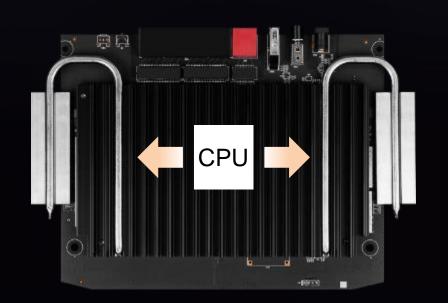
Heat pipes

Premium cooling

Newer generations of WiFi chips have increased operating temperatures compared to older ones.

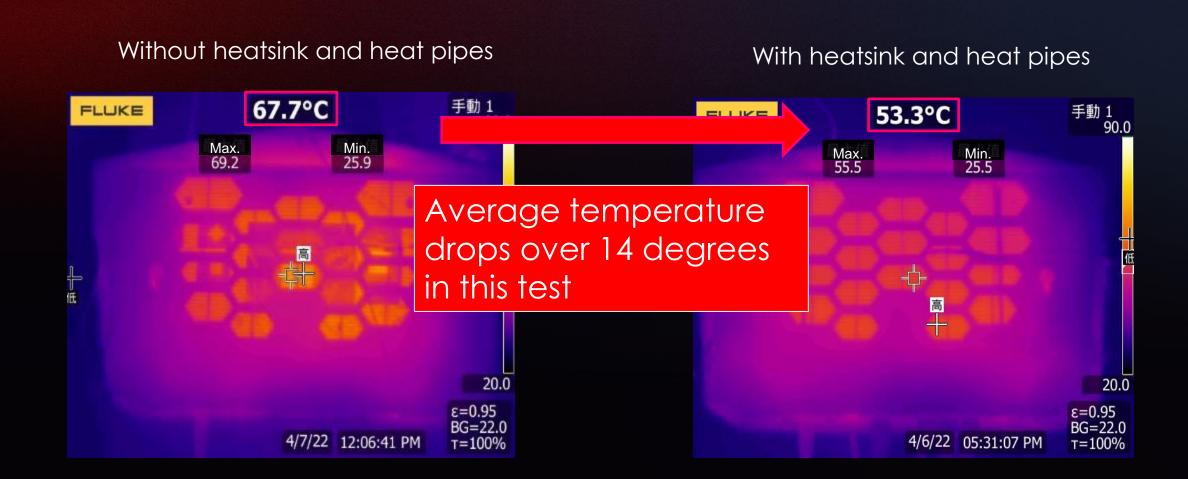
MSI places high importance on heat management and have become masters of thermal design in the high-performance PC industry. Leveraging experience from developing graphics cards and laptop, MSI is the first company to put heat pipes in a router.

Additionally, heatsinks keep the device cooler while under heavy loads, thus improving reliability.



Thermal test result





Device will shut down when the temperature hit around 75 degree.

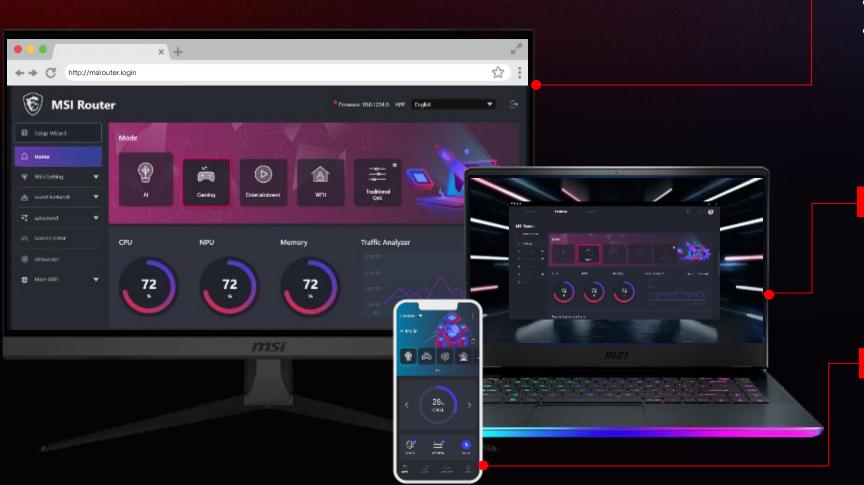
quad-core 5GHz-2 Radio 5GHz-1 Radio 2.4GHz Radio **FEM** Boosts signal strength and quality 5GHz FEM 2.4GHz FEM RadiX AX6600 WiFi 6 Tri-Band Gaming router

Powerful CPU

Qualcomm 1.8GHz

Management interface





Web GUI

- Comprehensive features
- Fully control your network
- Connect router wired or wireless, and Login with
 - http://mrouter.login
 - 192.168.10.1

MSI center

- Mystic Light
- MSI First
- Dark/light version

MSI Router app

- Check your network anytime
- Share guest WiFi via QR code

Parental control



- Web and App filters by category
 - Adult
 - Gambling
 - Violence

- Illegal
- Malicious
- _ Game

- Time schedule
 - Block device traffic on a schedule

Feature overview



- Tri-band: Supports 8-streams on 2.4GHz and dual 5GHz simultaneously, up to 6600 Mbps speed
- WiFi 6 technology: Features MU-MIMO, OFDMA, beamforming, and 1024QAM to boost WiFi efficiency
- AI QoS: Automatically optimizes network traffic and prioritizes data packets according to gaming, streaming, WFH and AI auto modes.
- Game accelerator: MSI FIRST provides extreme low latency for immersive online gaming experiences
- Ultra fast wired speed: Unleash the potential of your next-level network with a 2.5 Gbps WAN/LAN port
- Powerful processor: Equipped with a 64-bit 1.8GHz quad-core processor
- Premium cooling design: Includes heat pipes that ensure the router can sustain high-performance traffic





PRODUCT DETAILS

Product overview







2.5 Gigabits port

SPECIFICATIONS TABLE

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MKT NAME	RADIX AXE6600 WIFI 6E TRI-BAND GAMING ROUTER	RADIX AX6600 WIFI 6 TRI-BAND GAMING ROUTER	
MODEL NAME	GRAXE66	GRAX66	
РНОТО			
WIFI STANDARDS	WIFI 6E AND BACKWARD COMPATIBLE	WIFI 6 AND BACKWARD COMPATIBLE	
WIFI SPEED	UP TO 6600 Mbps	UP TO 6600 Mbps	
OPERATION BAND	2.4 GHz / 5 GHz / 6 GHz	2.4 GHz / 5 GHz	
WIFI FEATURES	MU-MIMO, OFDMA, 1024-QAM, BEAMFORMING	MU-MIMO, OFDMA, 1024-QAM, BEAMFORMING	
PROCESSOR	QUAD-CORE 1.8 GHz CPU	QUAD-CORE 1.8 GHz CPU	
MEMORY	256MB FLASH 512MB DDR4 RAM	256MB FLASH 512MB DDR4 RAM	
ANTENNA	HIGH-PERFORMANCE RGB ANTENNAS X 6	HIGH-PERFORMANCE ANTENNAS X 6	
RJ45 PORT	1 X 2.5G PORT 4X GIGABIT PORT	1X 2.5G PORT 4X GIGABIT PORT	
USB PORT	1X USB 3.2 GEN 1	1X USB 3.2 GEN 1	
CONCURRENT DEVICES	UP TO 60 DEVICES	UP TO 60 DEVICES	

Comparison Table



Brand	MSI	Asus	TP-LINK	Netgear
Model Name	RadiX AX6600	ROG Rapture GT-AX6000	Archer GX90	RAX70
Photo				
WiFi Standards	802.11 a/b/g/n/ac/ax	802.11 a/b/g/n/ac/ax	802.11 a/b/g/n/ac/ax	802.11 a/b/g/n/ac/ax
Operation band	Tri-band (2.4/5/5GHz)	Dual-band (2.4/5 GHz)	Tri-band (2.4/5/5GHz)	Tri-band (2.4/5/5GHz)
WiFi Speed	4804 Mbps @ 5GHz-1 1201 Mbps @ 5GHz-2 574 Mbps @ 2.4GHz	4804 Mbps @ 5GHz 1148 Mbps @ 2.4GHz	4804 Mbps @ 5GHz-1 1201 Mbps @ 5GHz-2 574 Mbps @ 2.4GHz	4804 Mbps @ 5GHz-1 1201 Mbps @ 5GHz-2 574 Mbps @ 2.4GHz
Antenna	6	4	8	6
Processor	Quad-core 1.8 GHz	Quad-core 2.0 GHz	Quad-core 1.5 GHz	Quad-core 1.5GHz
RJ45 PORT	2.5 Gigabits for WAN/LAN x 1 Gigabit port for WAN/LAN x1 Gigabit ports for LAN x3	2.5 Gigabits for WAN/LAN x 1 2.5 Gigabits for LAN x 1 Gigabit for LAN x 4	2.5 Gigabits for WAN/LAN x 1 Gigabit port for WAN/LAN x1 Gigabit ports for LAN x3	Gigabits for WAN x 1 Gigabit port for LAN x4
USB PORT	USB 3.2 Gen 1 x 1	USB 3.2 Gen 1 x 1 USB 2.0 x 1	USB 3.0 Port x1 USB 2.0 Port x1	USB 3.0 Port x1
Zero setup QoS	Al QoS	NA	NA	NA
Parental Control	Yes	Yes	Yes	Yes
Premium cooling	Yes	NA	NA	NA
MSRP	249	329.99	249.99	379.99



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