

Info Kit of RadiX AXE6600 WiFi 6E Tri-Band Gaming Router

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Tech meets Aesthetic







PRODUCT FEATURES







WiFi 6E Tri-Band Gaming router



2.4GHz + 5GHz + 6GHzWiFi 6E supports 8-streams on tri-band simultaneously



Al QoS
Easy to use traffic prioritization
Reduce network latency



Powerful processor Quad core CPU



Premium coolingHeatsink with heat pipes



Game accelerator
Gaming enrichment features



Tri-Band





Ultra fast tri-band boosts speed up to 6600 Mbps

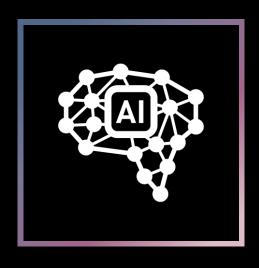
5.5X faster speed

6GHz AX

4x4(Tx/Rx) 1024/256-QAM 20/40/80/160MHz, Up to 4804 Mbps 5GHz 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



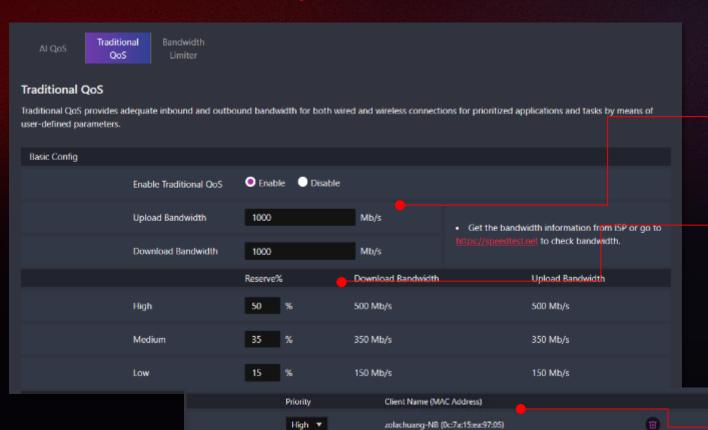
AI QoS

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 button / APP / GUI

Lights on antennas indicate mode

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-Streaming



AI QoS-WFH



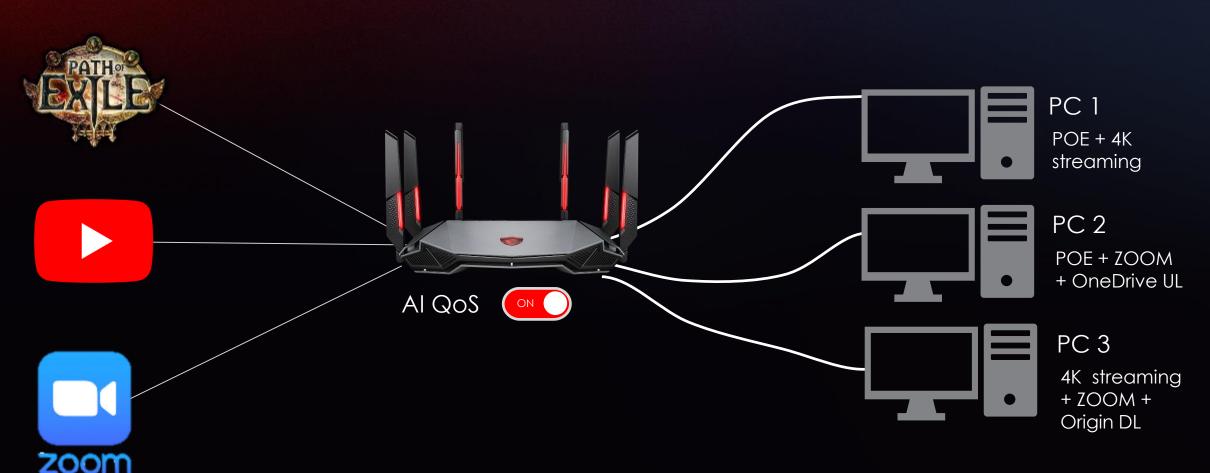
Al QoS- Al auto



Test Setup



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



Test result- gaming



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

RadiX AI QoS

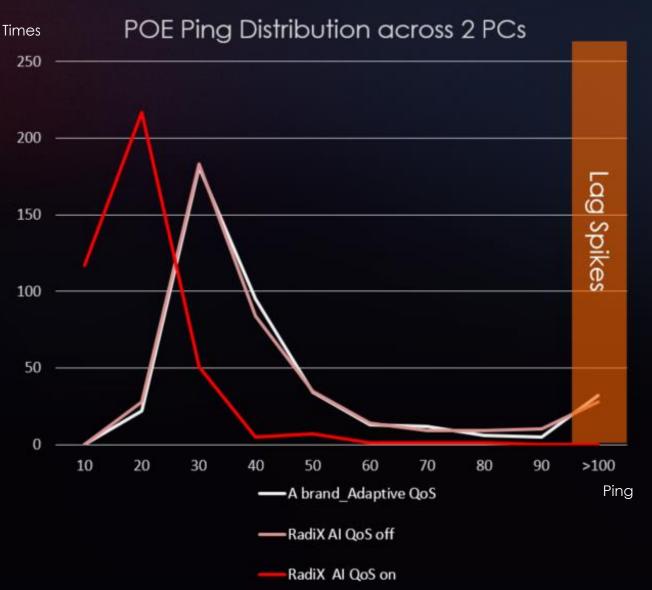
S

A Brand QoS

73 Max. Ping 671

14.8 Avg. Ping 47.3

10 time Ping > 100 32 times



Test result- streaming

YouTube

Recording the video buffer health on PC 1 and PC 3

RadiX Al QoS

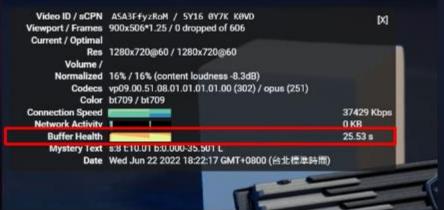
VS

A Brand QoS

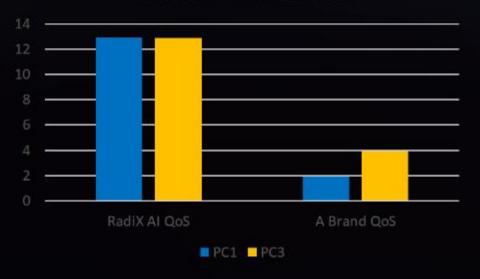
12.9s Avg. Buffer 2.9s

 $0 \text{ time} \qquad Buffer = 0 \qquad 71 \text{ times}$





YouTube buffer health



Test result- WFH

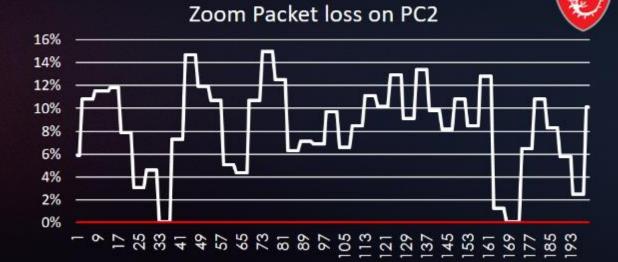
Zoom

Recording Zoom packet loss from PC 2 and PC 3

RadiX AI QoS

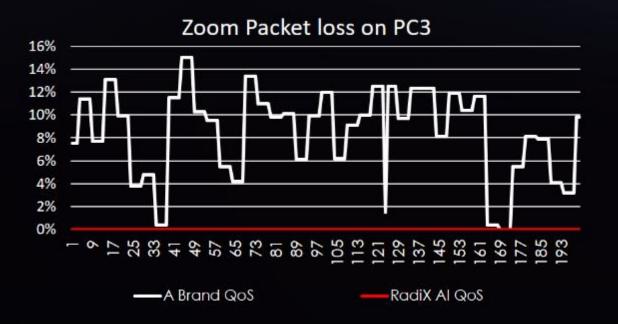
A Brand QoS

0% Avg. packet loss 4.25%



-RadiX AI QoS

-A Brand QoS





Game Accelerator

MSI First





Other brand devices

Mystic light



Breathing



Color shift



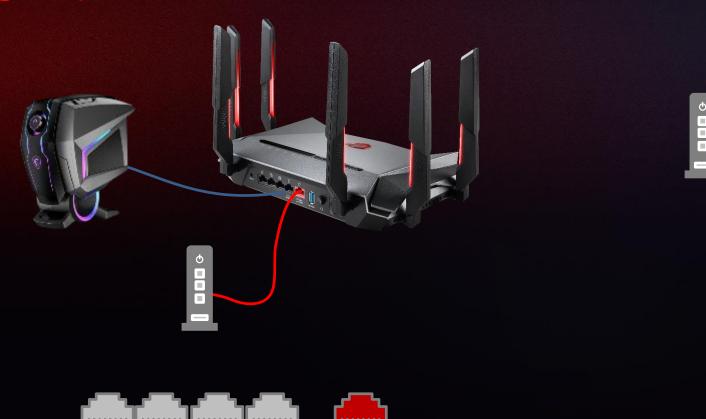
Steady



Rainbow

High-speed Wired LAN

Gigabit LAN Port









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

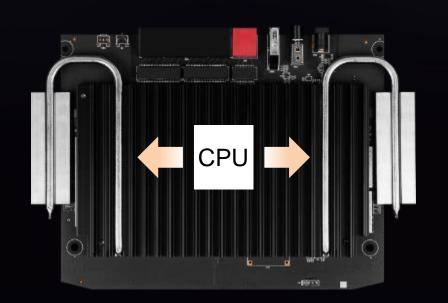
Heat pipes

Premium cooling

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

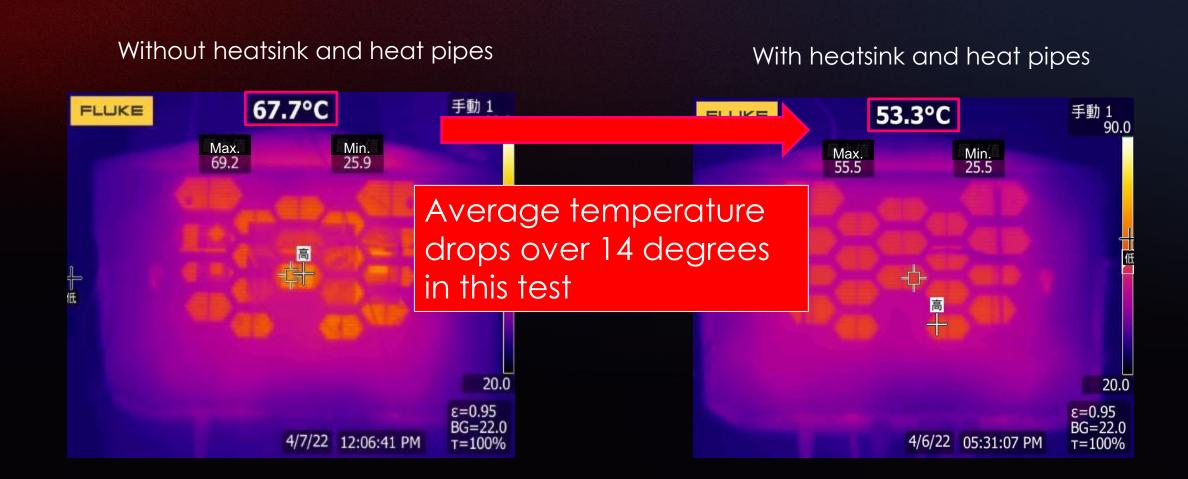
MSI places high importance on heat management and have become masters of thermal design in the high-performance PC industry. Leveraging experience from developing graphics cards and laptop, MSI is the first company to put heat pipes in a router.

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.

Qualcomm 1.8GHz quad-core 5GHz Radio 6GHz Radio 2.4GHz Radio **FEM** Boosts 6GHz signal strength and quality 5GHz FEM 2.4GHz FEM RadiX AXE6600 WiFi 6E Tri-Band Gaming router

Powerful CPU

Management interface





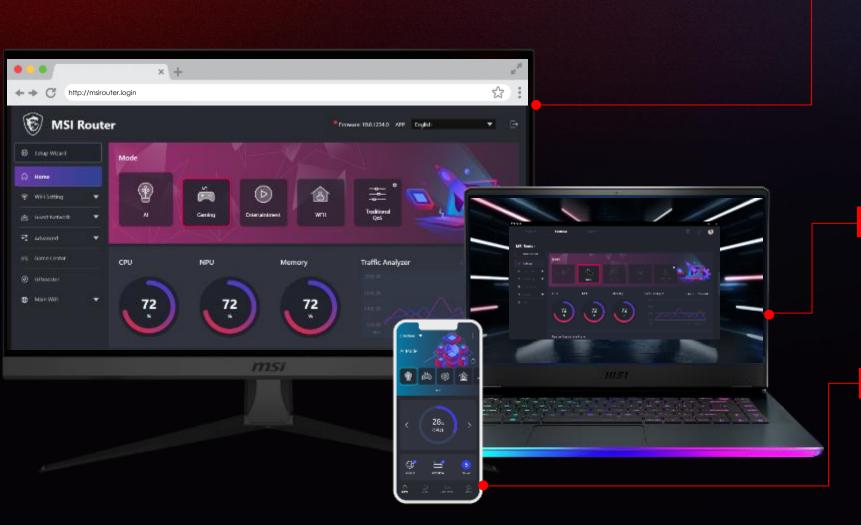
- Comprehensive features
- Fully control your network
- Connect router wired or wireless, and Login with
 - http://mrouter.login
 - 192.168.10.1

MSI center

- Basic management
- Mystic Light
- MSI First
- Dark/light version

MSI Router app

- Basic management
- 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



- New 6 GHz band: Game on the latest 6 GHz band and enjoy interferencefree WiFi with concurrent tri-band transfer speeds up to 6600 Mbps.
- Al QoS: Automatically prioritize gaming packets with Al-enhanced QoS; change preset modes among Al-auto, gaming, streaming, and WFH by simply pressing the dragon shield button or the app.
- Unstoppable gaming: play with an uninterrupted WiFi connection for immersive experiences in online gaming, UHD video streaming, and livestream broadcasting.
- Ultra fast wired speed: Unleash the potential of your next-level network with a 2.5 Gbps WAN/LAN port
- Premium cooling design: Includes heat pipes that ensure the router can sustain high-performance traffic
- Powerful processor: Equipped with a 1.8GHz quad-core processor to fully support WiFi 6 features such as MU-MIMO, OFDMA and beamforming.





PRODUCT DETAILS

Product overview





Dragon shield button Press to change Al QoS mode and press 2 seconds to turn off antenna RGB lights



2.5 Gigabits port

SPECIFICATIONS TABLE



MKT NAME	RADIX AXE6600 WIFI 6E TRI-BAND GAMING ROUTER	OUTER RADIX AX6600 WIFI 6 TRI-BAND GAMING ROUTER GRAX66	
MODEL NAME	GRAXE66		
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	1X 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	Netgear	Linksys
Model Name	RadiX AXE6600	ROG Rapture GT-AXE11000	RAXE300	MR7500
Photo				to 1
WiFi Standards	WiFi 6E 802.11 a/b/g/n/ac/ax	WiFi 6E 802.11 a/b/g/n/ac/ax	WiFi 6E 802.11 a/b/g/n/ac/ax	WiFi 6E 802.11 a/b/g/n/ac/ax
Operation band	Tri-band (2.4/5/6GHz)	Tri-band (2.4/5/6GHz)	Tri-band (2.4/5/6GHz)	Tri-band (2.4/5/6GHz)
WiFi Speed	4804 Mbps @ 6GHz 1201 Mbps @ 5GHz 574 Mbps @ 2.4GHz	4804 Mbps @ 6GHz 4804 Mbps @ 5GHz 1148 Mbps @ 2.4GHz	2402 Mbps @ 6GHz 4804 Mbps @ 5GHz 574 Mbps @ 2.4GHz	4804 Mbps @ 6GHz 1201 Mbps @ 5GHz 574 Mbps @ 2.4GHz
Antenna	6x RGB antennas	8	6	4
Processor	Quad-core 1.8 GHz	Quad-core 1.8 GHz	Quad-core 1.7 GHz	Quad-core 1.8GHz
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 Gigabit for WAN x 1 Gigabit for LAN x 4	2.5/1 Multi-Gig for WAN/LAN x 1 Gigabit port for WAN x1 Gigabit ports for LAN x4	5 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 2	USB 3.0 Port x1	USB 3.0 Port x1
Zero setup QoS	Al QoS	NA	NA	NA
Parental Control	Yes	Yes	Yes	NA
Premium cooling	Yes	NA	NA	NA
MSRP	349	479.99	399.99	349.99



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