cudy

Model: X6

AX1800

4-Stream Dual Band Wi-Fi 6 Router

- Up to 1.8Gbps Wi-Fi 6 Speed
- Powerful Dual-Core Processor
- VPN Server and VPN Client Support
- Latest and cutting-edge WPA3 Security

Compatible with 802.11ax/ac/a/b/g/n Wi-Fi 6

WHOLE HOME MESH

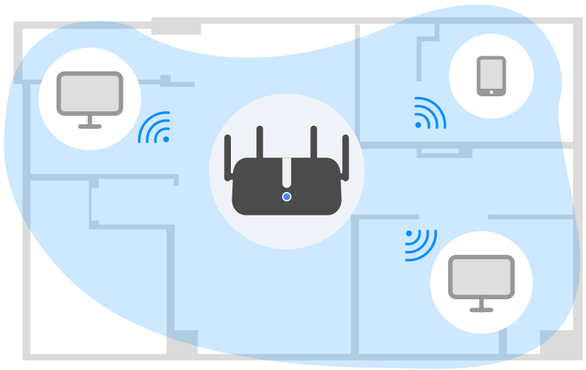
Datasheet

1201 Mbps (5 GHz)

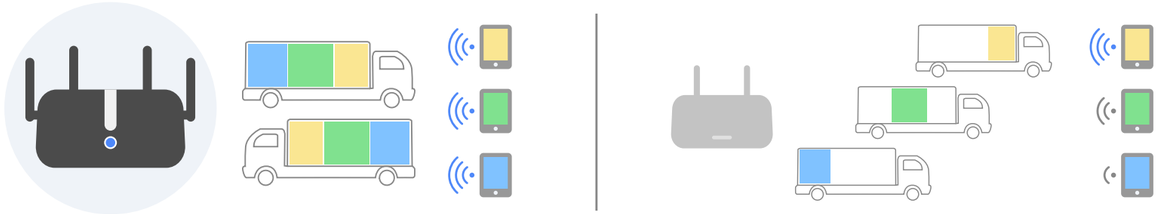
574 Mbps (2.4 GHz)

Up to 1.8Gbps Wi-Fi 6 Speed: Enjoy smooth streaming, downloading, and gaming with extremely fast Wi-Fi 6 Speed.

Features

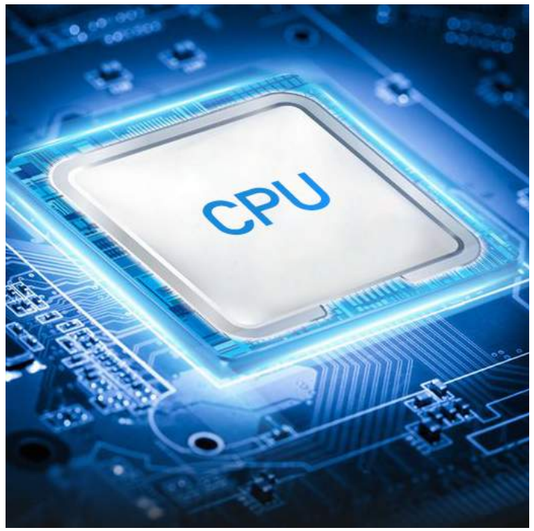


Extensive Coverage: Beamforming, and four antennas combine to deliver focused reception to devices far away.



More Devices: Wi-Fi 6 uses OFDMA to improve capacity and efficiency of your network, so more devices can connect without slowing down your Wi-Fi.

Hardware



Powerful Dual-Core Processor

Powerful Dual-Core CPU ensures smooth 4K UHD streaming to Smart TVs, mobile devices and gaming consoles without buffering.

16MB Flash + 256MB DDR

16MB flash design makes the router stable and reliable , ensuring the continuous operation of the system, and provides more space for the file system.

Built-in 256MB DDR makes the product run faster and provides more possibilities for function expansion.

4 x 5dBi High Gain Antennas

High gain antennas boost sensitivity of the router， create connections over greater distances， providing powerful penetration through walls.

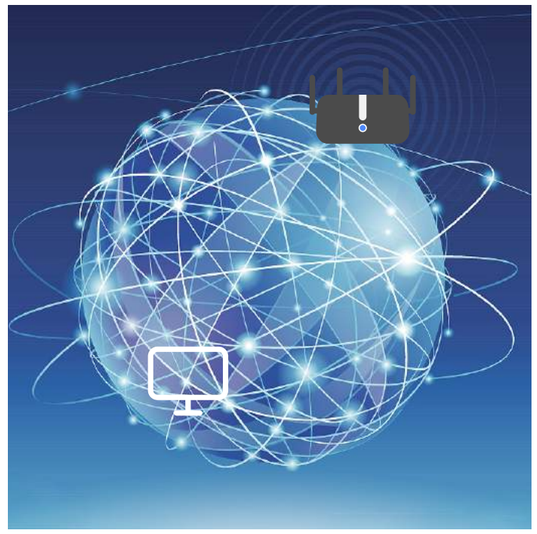
5 x Gigabit Ports

Featured with 5 10/100/1000Mbps ports, greatly expands your network capacity, enabling instant large files transferring.

Software

VPN

With built-in VPN, this router can easily establish a connection to VPN Server to transport all your online data and traffic, securing it with its encryption at the same time.



DDNS

By assigning a custom domain name to your home router's IP address, DDNS function will update automatically as your home IP continues to change. Compatible with 15 more DDNS providers.

WPA3

The latest and cutting-edge Wi-Fi security protocol– WPA3 provides more secure and individualized encryption in personal password safety, protecting your network from wireless hacking.

Guest Network

Guest Network separate guest access from your family network. Maintain high security across your network to help ensure your privacy is safe while online.

Specifications

- Up to 1.8Gbps Wi-Fi 6 Speed: Enjoy smooth streaming, downloading, and gaming with extremely fast Wi-Fi 6 Speed.
- Powerful Dual-Core Processor: Powerful Dual-Core CPU ensures smooth 4K UHD streaming to Smart TVs, mobile devices and gaming consoles without buffering.
- Improved Capacity: Wi-Fi 6 uses OFDMA to improve capacity and efficiency of your network, so more devices can connect without slowing down your Wi-Fi.
- Extensive Coverage: Beamforming, and four antennas combine to deliver focused reception to devices far away.
- Pre-installed VPN. With built-in VPN, this router can easily establish a connection to VPN Server to transport all your online data and traffic, securing it with its encryption at the same time.
- Dynamic DNS: DDNS function solves the issue of changing residential IP addresses. By assigning a custom domain name to your home router's IP address, DDNS function will update automatically as your home IP continues to change. Compatible with 15 more DDNS providers.
- WPA3 Security: the latest and cutting-edge Wi-Fi security protocol—WPA3 provides more secure and individualized encryption in personal password safety, protecting your network from wireless hacking.
- Works with Existing Wi-Fi Devices: Backward compatible with Wi-Fi 5 (802.11ac) and earlier generation WiFi standards.

Hardware Features

Processor	Dual-Core Processors
Flash	128 Mbit (16 MB)
DDR	2 Gbit (256 MB)
Antenna	4× Fixed 5dBi Omni-Directional Antennas
Interface	1× 10/100/1000 Mbps WAN Port
	4× 10/100/1000 Mbps LAN Ports
Button	WPS Button, Reset Button
External Power Supply	12 V / 1A
Dimensions (W x D x H)	204.8×133.2×38.3 mm (8.06×5.24×1.51 inches)

Wireless Features

Wireless Standards	IEEE 802.11ax/ac/n/a 5 GHz
	IEEE 802.11ax/n/b/g 2.4 GHz
Frequency	5 GHz, 2.4 GHz
Signal Rate	1201 Mbps (5 GHz), 574 Mbps (2.4 GHz)
	Compatible with 802.11a/b/g/n/ac/ax Wi-Fi standards
Transmit Power	CE: <20dBm(2.4 GHz), <23dBm(5.15 GHz~5.25 GHz)
	FCC:<30dBm(2.4 GHz & 5.15 GHz~5.825 GHz)
Wireless Functions	Enable/Disable Wireless Radio, WMM
Wireless Encryptions	WPA-PSK, WPA2-PSK, WPA3,
	WPA-PSK/WPA2-PSK, WPA2-PSK/WPA3
Others	MU-MIMO, OFDMA, Beamforming, Mesh

Software Features

WAN Type	Dynamic IP/Static IP/PPPoE
DHCP	Server, DHCP Client List, Address Reservation
Dynamic DNS	Compatible with 15 more DDNS providers.
Guest Network	2.4 GHz guest network × 1
	5 GHz guest network × 1
NAT	Port Forwarding, Port Triggering, UPnP, DMZ
VPN Sever & Client	PPTP/L2TP/OpenVPN/WireGuard/IPSec/Zerotier
Working Mode	Wi-Fi Router/AP/RE/WISP/Mesh
CWMP Protocol	TR069 / TR098 / TR111 / TR181
ACS Server Compatibility	GenieACS, OpenACS
Management	Access Control, Local Management,
	Remote Management, Wake on LAN
TTL	Extend/Spoof/Custom
DNS	Cloudflare/Google/NextDNS/Custom
VLAN	Tag VLAN / IPTV
Internet Protocols	IPv4 / IPv6
IPv6	Relay
	Dynamic(SLAAC/DHCPv6)
	Static (Fixed IP)
	Passthrough
	MAP-E (Dual-stack)
	DS-Lite (Dual-stack)

Others

Package Content	4-Stream AX1800 Wi-Fi6 Router
	Power Adapter
	RJ45 Ethernet Cable
	Quick Installation Guide
Environmental Requirements	Operating Temperature: 0 °C ~ 40 °C (32 °F ~104 °F)
	Storage Temperature: -40 °C ~ 70 °C (-40 °F ~ 158 °F)
	Operating Humidity: 10% ~ 90% non-condensing
	Storage Humidity: 5% ~ 90% non-condensing
System Requirements	Windows, macOS, Android, iOS, or other OS with networking capability
	Firefox, Chrome, Safari, Edge, or other up-to-date web browsers
	Cable/DSL/ONT modem or other internet source devices
	Internet subscription with ISP or carriers