Product

RT6600ax

Hardware Specs

CPU
Quad core 1.8 GHz

Hardware Acceleration Engine
Layer 4 / Layer 7

Memory
1 GB DDR3

Antenna Type
• 4×4 MIMO Omni-directional high-gain dipole (5GHz) • 2×2 MIMO Omni-directional high-gain dipole (2.4GHz / 5GHz)

LAN Port
• 2.5GbE (RJ-45) x 1 • Gigabit (RJ-45) x 3

WAN Port
• Gigabit (RJ-45) x 1 • 2.5 GbE (RJ-45) x 1 (Dual WAN)

External Ports
USB 3.2 Gen 1 x 1 (5V, 0.9A power output)

IEEE 802.11ax
• IEEE 802.11a/b/g/n/ac/ax • 5GHz-1: 4800Mbps • 5GHz-2: 1200Mbps • 2.4GHz: 600Mbps • 4×4 160MHz • Simultaneous tri-band Wi-Fi

Notes	160 MHz is not supported in Canada and Australia.

Wi-Fi Encryption

WPA/WPA2-Personal, WPA/WPA2-Enterprise, WPA2/WPA3-Personal, WPA3-Personal/Enterprise, Wi-Fi Enhanced Open (OWE)

Button and Switch

WPS, Power, Reset, Wi-Fi On/Off

Size (Height x Width x Depth)

175 mm x 320 mm x 200 mm

Notes	Antennas in upright position

Weight

1.6 kg

Temperature

Operating Temperature	5°C to 40°C (40°F to 104°F)
Storage Temperature	-20°C to 60°C (-5°F to 140°F)
Relative Humidity	5% to 95% RH

Certification

- FCC
- UKCA
- CE
- BSMI
- VCCI
- RCM
- KC
- iDA
- TELEC
- JATE
- IC

Wi-Fi Certification

- CE
- UKCA
- FCC
- NCC
- RCM
- iDA
- TELEC
- KC
- IC

Warranty	
2 Years	
Notes	The warranty period starts from the purchase date as stated on your purchase receipt. (Learn more)

AC Input Power Voltage
100 V to 240 V AC

Power Frequency
50/60 Hz, Single Phase

Power Consumption
11.11 W (Access) 6.77 W (Idle)

Environment
RoHS Compliant

Packaging Content

- Main Unit X 1
- AC Power Adapter X 1
- RJ-45 LAN Cable X 1
- Quick Installation Guide X 1

Software Specs

SRM Specifications

Wireless	
Wi-Fi MAC Address Filter	v
Maximum MAC Filters	64
Maximum devices on per MAC filter	256
Seamless Roaming	802.11k/v/r standard support
Beamforming	v
DFS	v
Maximum Number of Wi-Fi SSID	15
Schedulable Wi-Fi	v
Guest Network	- Guest Portal - Customized page style - Connection time limit - Password Rotation
WPS 2.0 (Wi-Fi Protected Setup 2.0)	v
3G / 4G Dongle & Tethering (Learn more)	v
Primary Wi-Fi Point	v
Wi-Fi Point	v
Recommended Maximum Number of Wi-Fi Points	1 Primary + 6 Wi-Fi points (in all wireless uplink connection environment) 1 Primary + 12 Wi-Fi points (in all wired uplink connection environment. Learn more)
Maximum Connected Devices*	200

*Notes	- The numbers above are for reference only. Actual performance and behavior may depend on network environment and settings - RT6600ax supports at least 200 connected devices concurrently transmitting data

Network

Internet Connection	- Dynamic IP, Static IP, PPPoE, PPTP, DS-Lite (AFTR) - Android Tethering - iPhone Tethering
Operating Mode	- Wireless Router - Wireless AP
DMZ	v
IPv6	IPv6 DHCP server/client, DS-Lite, 6in4, 6to4, 6rd, Dual-Stack, DHCPv6-PD, IPv6 Relay, FLET's IPv6
DHCP	Server/client mode, client list, MAC address reservation
Maximum DHCP Reservations	500
LAN / WLAN IGMP Snooping	v
Network Address Translation (NAT)	v
PPPoE relay	v
Policy route	v
Static route	v
Maximum IPv4 Static Routes	100
Maximum IPv6 Static Routes	100
Diagnosis Tools	- Ping - Traceroute
NAT Loopback (Hairpinning)	v

VLAN

Maximum Number of Network Segmentation	5
Trunk	v

Port Forwarding

Maximum Port Forwarding Rules	96
Maximum UPnP Rules	96

Port Triggering

Maximum Port Triggering Rules	64
Minimum Port Triggering Timeout	30s
Maximum Port Triggering Timeout	3600s

VPN

- VPN server (WebVPN, SSL VPN, SSTP, OpenVPN, L2TP/IPSec, PPTP, Site-to-Site)
- VPN client (PPTP, OpenVPN, L2TP/IPSec)
- VPN Pass-through (PPTP, IPSec, L2TP)

Traffic Control

Internet Ban, Device Speed & Priority	v
Application Layer (L7) Quality of Service (QoS)	v
Maximum Device Rules	64
Maximum Application Rules per Device	32

Traffic Monitor

Live View	v
Historical Statistics	Daily, Weekly, Monthly, Annual
Website History	v
Application Detection	v
Traffic Report	
Country Auto Update	v
Schedulable	v
Traffic Analysis Period	Daily, Weekly, Monthly, Annual
Export Formats	.CSV, .HTML

Add-on Packages view the complete package list

Safe Access	
User Profile	15
Network Profile	5
Customized Internet Schedule	v
Time Quota	v
IPv4 / IPv6 DNS-based Web Filter	• Schedule • Database • Request to unblock
Customized Allow / Block List	• Maximum blocked URLs: 200 • Maximum allowed URLs: 200
Pause Internet	v
Reward	v
Log	v
Report	v

Safe Search	Bing, Google, YouTube, Duckduckgo
Threat Intelligence Database	Support in IPv4 & IPv6
Google Safe Browsing	Support in IPv4 & IPv6
Database Auto Update	Threat Intelligence Database, Google Safe Browsing, DNS-based web filter

Threat Prevention

Greatly enhance the security of your router, designed to safeguard your network against internet threats

VPN Plus Server

Easily create and manage secure VPN access through a web browser or client. Supports various VPN services — Site-to-Site VPN, WebVPN, SSL VPN, Remote Desktop, SSTP, OpenVPN, L2TP over IPSec, and PPTP

Maximum Client VPN Access License	40
Site-to-Site VPN	v
Maximum Site-to-Site VPN Tunnels	20
Remote Desktop (RDP + VNC)	5
Connection List	v
Log	v
Report	v

DNS Server

Helps users find and translate domain names into IP addresses

Download Station

Supported download protocols: BT/HTTP/FTP/NZB/eMule

Maximum Concurrent Download Tasks	20

Maximum Concurrent BT Download Tasks	20

Media Server

- Media indexing
- DLNA Compliance

RADIUS Server

Provides centralized authentication, authorization, and accounting for wireless network access

Mobile Apps

Supported Mobile Apps

DS router (Android/iOS)	- First Time Installation - Network overview - Wi-Fi management - Wi-Fi system topology - Safe Access - Traffic Control - Network security (firewall, port forwarding, Internet ban) - Wake on LAN - System Update
VPN Plus (Android/iOS)	v
DS get (Android)	v
DS file (Android/iOS)	v

Management

Operating System

Synology Router Manager (SRM)

Anywhere Access to SRM

Synology QuickConnect & Dynamic DNS (DDNS)

Security	
Firewall/SPI Firewall, DoS Protection, VPN Pass-through (PPTP, IPSec, L2TP), Auto block, SSL certificate, Security Advisor, two-factor authentication	

Wake on LAN (WOL)	
WOL over QuickConnect	v
Maximum Connected Devices	100

Notification	
Email, SMS, push service (via DS router)	

Printer Server	
Maximum printer: 1	

Others	
Free OS Upgrade	v
SSH	v
SNMP	v
Configuration Backup & Restore	v
User Account Management	v

USB/SD Card File Service

File System	
EXT4, FAT, NTFS, HFS+	

Access Support	

- File explorer (via LAN only)
- Web browsers: Chrome™, Firefox®, Microsoft Edge, Safari
- Mobile device: DS file

Protocol Support	
Windows file service (CIFS), Mac file service (AFP), FTP/FTPS, WebDAV	
Others	
Apple Time Machine	v
Shared Folder Privileges	v
Storage Hibernation	v