

Datasheet (GL-AX1800)

Meet Flint

- Secure and Ultra Fast Wi-Fi 6 Wireless Router

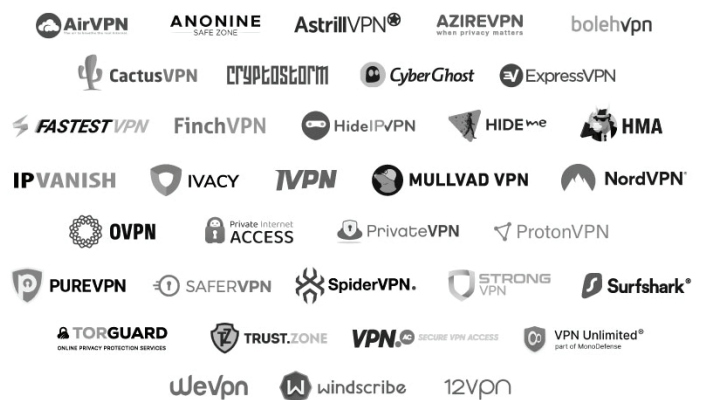


Flint (GL-AX1800) is a dual-band Wi-Fi 6 wireless router designed for heavy-duty home and office applications. It offers a combined Wi-Fi speed of 1800 Mbps (600 Mbps for 2.4GHz and 1200 Mbps for 5GHz), with high connection stability, and minimal network congestion. Flint comes with MU-MIMO and OFDMA technology, which is most effective in maintaining ultra-low latency connections during heavy data usage under mass device connectivity scenarios.

Highlights

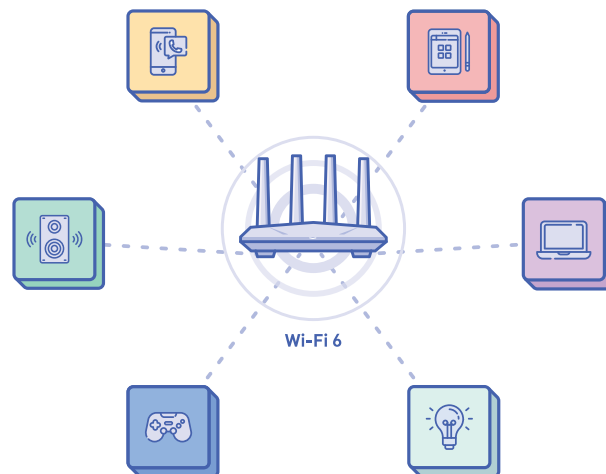
Ultra-Fast VPN Encryption

Flint is pre-installed with OpenVPN (Maximum 112Mbps) and WireGuard® (Maximum 667Mbps) supporting 30+ VPN services. It automatically encrypts all network traffic within the connected network, including guest devices and client devices that are not capable of running VPN encryption. Flint can also act as a VPN server, redirecting traffic from client devices in remote locations to the VPN server via a VPN tunnel before accessing the public internet.



Mass Device Connectivity MU-MIMO Technology

Flint comes with MU-MIMO. It processes multiple data streams from client devices simultaneously, instead of queuing network traffic into one data stream, reducing the queuing delay in high density networks.



Multi-device Transmission Efficiency OFDMA Technology

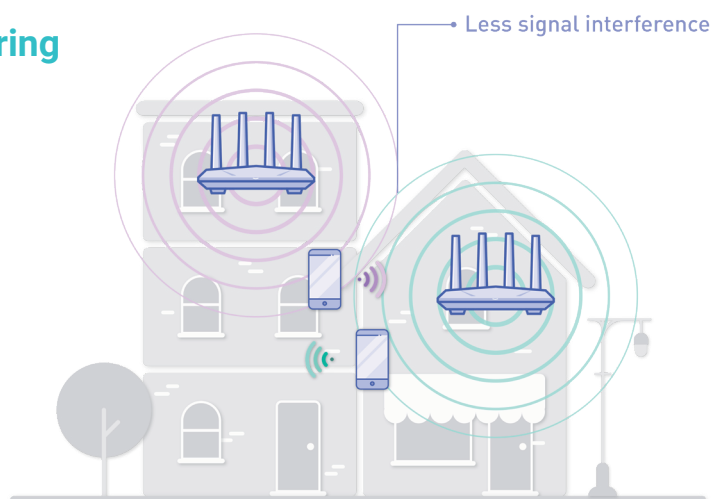
Flint comes with OFDMA technology (orthogonal frequency division multiple access). It lets multiple devices receive data from a single transmission, drastically improving the transmission efficiency when connected to multiple devices.



Stability Improvement using BSS Coloring

Flint comes with Base Service Station Coloring (BSS Coloring), it measures operating Wi-Fi channel thresholds, and automatically selects a channel with loose thresholds (Minimal usage) for connectivity.

BSS Coloring improves the connection stability by minimizing the router's risk of potentially picking up signal interference.



Specifications

HARDWARE

| | |
|--------------------|---|
| CPU | IPQ6000 Quad-core, @1.2 GHz |
| Memory / Storage | DDR3L 512MB / NAND Flash 128MB |
| Wi-Fi | 802.11 a/b/g/n/ac/ax, 2x2 600Mbps (2GHz) 802.11 a/b/g/n/ac/ax, 2x2 1200Mbps (5GHz) |
| External Antennas | 4 x 2.4GHz + 5GHz two-in-one Wi-Fi Antennas |
| Ethernet Speed | 10/100/1000 Mbps |
| Power Consumption | Normal operating consumption: <6W Operating at full capacity: <11W |
| Dimension / Weight | 210 x 120 x 36.8mm (L*W*H) / 445g |

SOFTWARE FEATURES

| | |
|-----------------------|---|
| Operating System | OpenWrt |
| Network mode | Routing, AP, Wireless Bridge, Wired Bridge |
| Ethernet Dialing Mode | DHCP, Static, PPPoE, Tethering |
| Repeater Mode | Scans and connects to SSID Connects to hidden SSID |

| | |
|--------------------------------------|---|
| <p>Wireless Configuration</p> | <p>Switching on and off wireless AP</p> <p>Modifying and hiding SSID</p> <p>Modifying encryption mode and password</p> <p>Channel modification</p> <p>Bandwidth modification</p> <p>Modifying transmission power</p> <p>Guest SSID</p> |
| <p>Firewall Function</p> | <p>Port forwarding, open port, DMZ</p> |
| <p>VPN</p> | <p>OpenVPN client & server</p> <p>WireGuard client & server</p> <p>Maximum OpenVPN Speed: 112Mbps</p> <p>Maximum WireGuard Speed: 500Mbps</p> <p>Policy routing</p> |
| <p>System Function</p> | <p>Restart</p> <p>Restore factory settings</p> <p>Change IP address range on LAN side</p> <p>Change time zone</p> <p>MAC address clone</p> <p>Advanced DNS</p> <p>Cloud remote management</p> <p>Remote web management</p> <p>Remote SSH management</p> <p>Installing / uninstalling packages</p> |

INTERFACE

| | |
|----------------------|---|
| Ethernet Port | 4 x LAN, 1 x WAN |
| USB Port | 1 x USB3.0 Type-A |
| LED Indicator | 1 x dual color LED indicator for Power and Internet |
| Reset Button | Press (>3s, <8s) restores network settings to device initial state Long press (>=8s) restores factory settings |
| Power Port | DC5521, 12V/1.5A (55*21*11mm) |

CERTIFICATION

- CE
- MIC
- WEEE
- FCC
- Rosh
- CCC

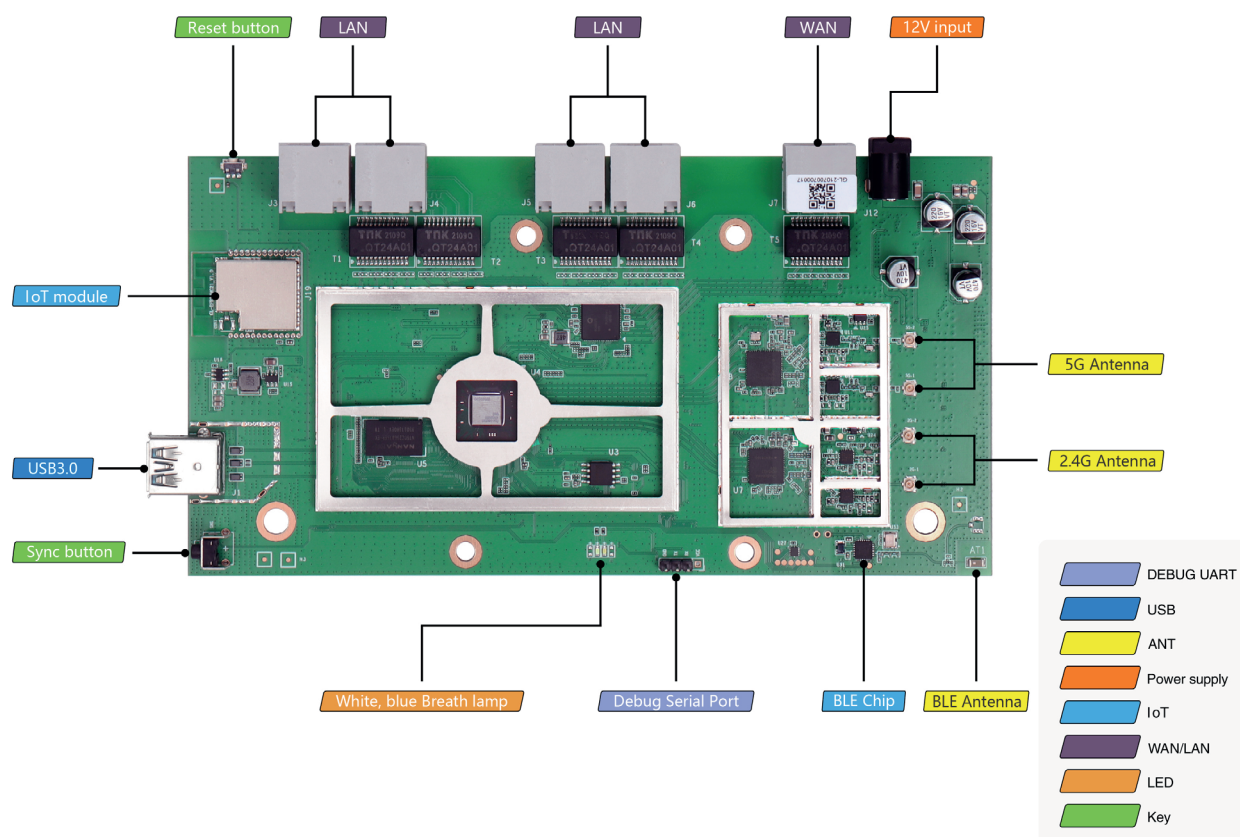
ENVIRONMENT

| | |
|------------------------------|-------------------------|
| Operating Temperature | 0 ~ 40°C (32 ~ 104°F) |
| Storage Temperature | -20 ~ 70°C (-4 ~ 158°F) |
| Operating Humidity | 5%~95%, non-condensing |
| Storage Humidity | 5%~95%, non-condensing |

PACKAGE LIST

1 x Flint (GL-AX1800) Router
 1 x Power Adapter (12V/1.5A)
 1 x Ethernet Cable
 1 x Warranty Card
 1 x User Manual

PINOUT



CONTACT US

GL TECHNOLOGIES (HONG KONG) LIMITED

Unit 601, Building 5W, Hong Kong Science Park, Shatin, N.T., Hong Kong

WEBSITE www.gl-inet.com

E-MAIL sales@gl-inet.com