

Datasheet (GL-BE6500)

Flint 3e BE6500 Dual-band Wi-Fi 7 Home Router



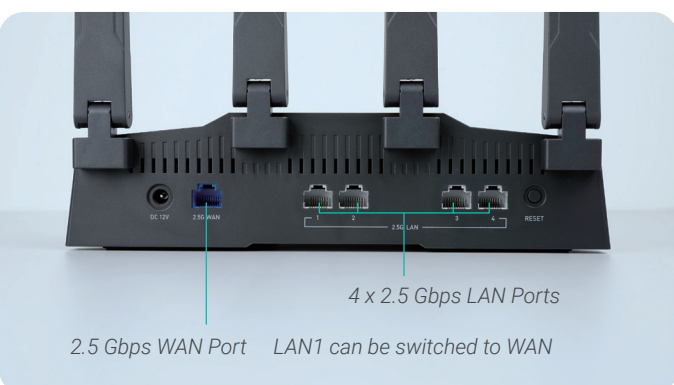
Flint 3e (GL-BE6500) is a high-performance dual-band Wi-Fi 7 router designed to deliver ultra-fast and reliable connectivity for homes, professionals, and small to medium-sized businesses. With combined speeds up to 6500Mbps (688Mbps@2.4GHz + 5764Mbps@5GHz) and Multi-Link Operation (MLO) technology, it ensures seamless cross-band performance and optimized network efficiency.

Equipped with five 2.5G ports, Flint 3e provides exceptional wired throughput and supports WAN/LAN auto-adaptation, link aggregation, and multi-WAN configuration for flexible and resilient network setups. Backed by 1 GB RAM for enhanced system stability, it delivers a next-generation networking experience built on speed, scalability, and dependable performance.

Highlights

Wi-Fi 7 Multi-Link Operation (MLO)

Flint 3e supports MLO technology across both 2.4 GHz and 5 GHz bands, reducing latency and optimizing bandwidth efficiency. This technology ensures stable, high-performance connectivity, even under heavy multi-device workloads.



High-Speed 2.5G Connectivity

Flint 3e features five 2.5G Ethernet ports, including one WAN, one WAN/LAN, and three LAN ports. It delivers ultra-fast, stable wired connections for PCs, NAS units, and gaming consoles, making it ideal for creator workstations and multi-user office environments.

Powerful VPN Performance

Flint 3e supports WireGuard and OpenVPN protocols, with DCO support enhancing OpenVPN performance up to 680 Mbps for secure and efficient encrypted connections. With built-in VPN Server and Client capabilities, it enables seamless remote access and network management. Also, built-in AdGuard ad blocking and support for over 30 VPN providers enhance privacy and flexibility across networks.



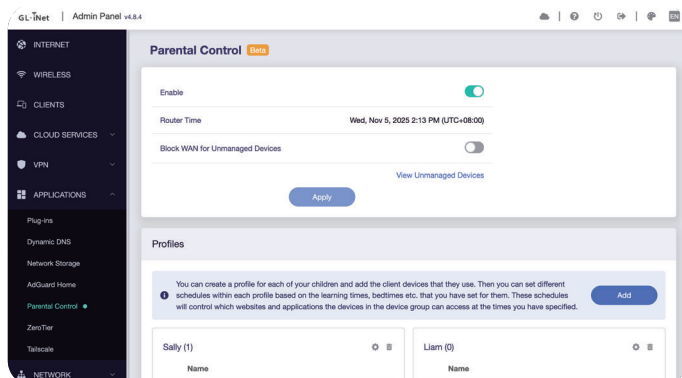
High-Concurrency Device Support

Flint 3e supports over 100 devices (tested under laboratory conditions), delivering reliable performance and stable connectivity across coverage areas of up to 2,500 sq. ft. It ensures seamless connections in dense device environments such as smart homes and small offices.



Advanced FEM Integration and Antenna

Flint 3e integrates six high-power Front-End Modules (FEMs) and four external high-performance antennas to enhance Wi-Fi signal strength and coverage. The optimized antenna design improves range and interference resistance, delivering reliable connectivity across large areas and multi-device environments.

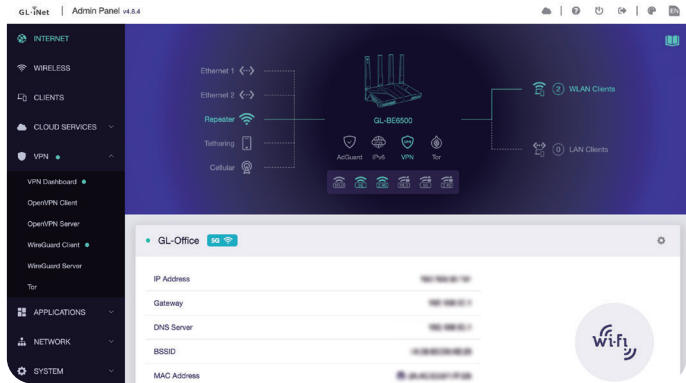


Comprehensive Parental Controls

Flint 3e offers both Local and Bark Parental Control versions, accessible via the GL.iNet app or Web Admin Panel. Powered by Bark, the award-winning parental control platform, users can enjoy the free Bark Home Plan to schedule internet access, filter websites, and manage online activities, helping families maintain a safe and healthy digital environment.

OpenWrt-Based System

Flint 3e runs on OpenWrt v23.05 (Kernel 5.4.213) and supports over 5,000 plugins for advanced network customization. The SDK v4.8 firmware provides an intuitive interface that simplifies setup and deployment, offering the flexibility required for diverse commercial and professional applications.



USB 3.0 Storage Expansion

Flint 3e features a USB 3.0 port for expanded storage of smart devices, allowing it to function as a lightweight home NAS or media server for effortless file sharing and multimedia streaming.

Specifications

HARDWARE	
CPU	Qualcomm Quad-core @1.5GHz
Memory / Storage	DDR4 1GB / 512MB NAND
Wi-Fi	802.11 a/b/g/n/ac/ax/be, 688 Mbps (2.4GHz) 802.11 a/b/g/n/ac/ax/be, 5764 Mbps (5GHz)
Antenna	4 x Foldable External Wi-Fi Antennas
Ethernet Speed	5 x 2.5G Ports (10/100/1000/2500Mbps)
Power Consumption	< 25W (Without USB load) < 36W (With USB load)
Dimension / Weight	240 × 157 x 74 mm (L*W*H) / 848g

SOFTWARE FEATURES	
Operating System	OpenWrt 23.05 (Kernel Version 5.4.213)
Network Mode	Router, Access Point, Extender, WDS
Ethernet Dialing Mode	DHCP Static IP PPPoE
Repeater Mode	Scans and connects to existing SSIDs Connects to hidden SSIDs
Internet Connection Method	Ethernet Repeater Tethering Cellular Supported Failover, Load Balance
Wireless Configuration	2.4GHz / 5GHz / MLO Wi-Fi Guest Network Isolation PSC (Preferred Scanning Channel) for 6 GHz SSID Modification and Hiding Transmission Power Adjustment Randomized BSSID Support
Cloud Services	GoodCloud, AstroWarp
VPN	OpenVPN (Client & Server, DCO Supported, up to 680Mbps) WireGuard (Client & Server, up to 680Mbps) Policy Routing Tor

System Function	Dynamic DNS AdGuard Home Parental Control ZeroTier Tailscale Port Forwarding, DMZ, IP Address Reservation IPv6 Drop-in Gateway
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INTERFACE	
Ethernet Port	1 x 2.5G WAN, 4 x 2.5G LANs
USB Port	USB 3.0 Type-A
LED Indicator	1 x Dual-Color LED Indicator (Blue / White)
Reset Button	1 x Reset Button (Press (>3s, <8s) to restore network settings to device initial state; Long press (>=8s) to restore factory settings)
Power Port	1 x DC5521 (12V/3A, 5.5 x 2.1mm)

CERTIFICATION	
<ul style="list-style-type: none">• CE• RoHS• WEEE• EUCC• ErP• UK PSTI• REACH	<ul style="list-style-type: none">• FCC• California Proposition 65• IC• MIC• SRRC• RCM

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 CONTENTS

- 1 x Flint 3e (GL-BE6500) Router
- 1 x Power Adapter
- 1 x Ethernet Cable
- 1 x Converter
- 1 x User Manual
- 1 x Warranty Card

CONTACT US

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