



B One 5G

5G Connectivity. Instant Reliability

Power up the **B One 5G** and get connected Instantly.

Bring Your
Own eSIM or physical SIM
 for 5G connectivity

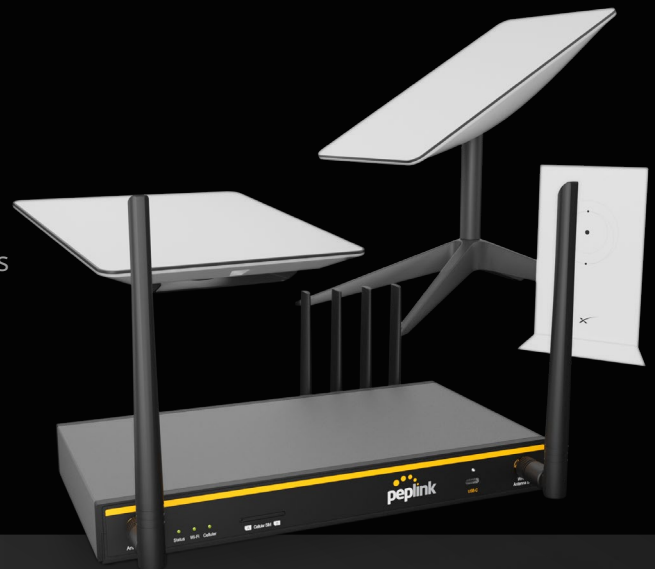


Add 5G to improve your Network Reliability

- Seamless failover internet services (Cable, Fiber) to 5G
- Unbreakable VoIP, Unbreakable Video calls

Easy Integration **5G with Starlink**

- Bond multiple Starlink connections together
- Load Balance your Starlink with other internet services (5G/LTE, Cable, Fiber, FWA)
- Optimize your network with additional features requested specifically by Starlink



Made for **Fixed Wireless Access (FWA) with 5G**

- Designed for use with MSP 5G/LTE Gateway devices
 - | Bond various FWA together (AT&T / T-Mobile / Verizon)
 - | Load Balance different internet sources (Cable, Fiber, 5G/LTE)
- Tether your phone with Wi-Fi WAN or USB





Long Term **Support**

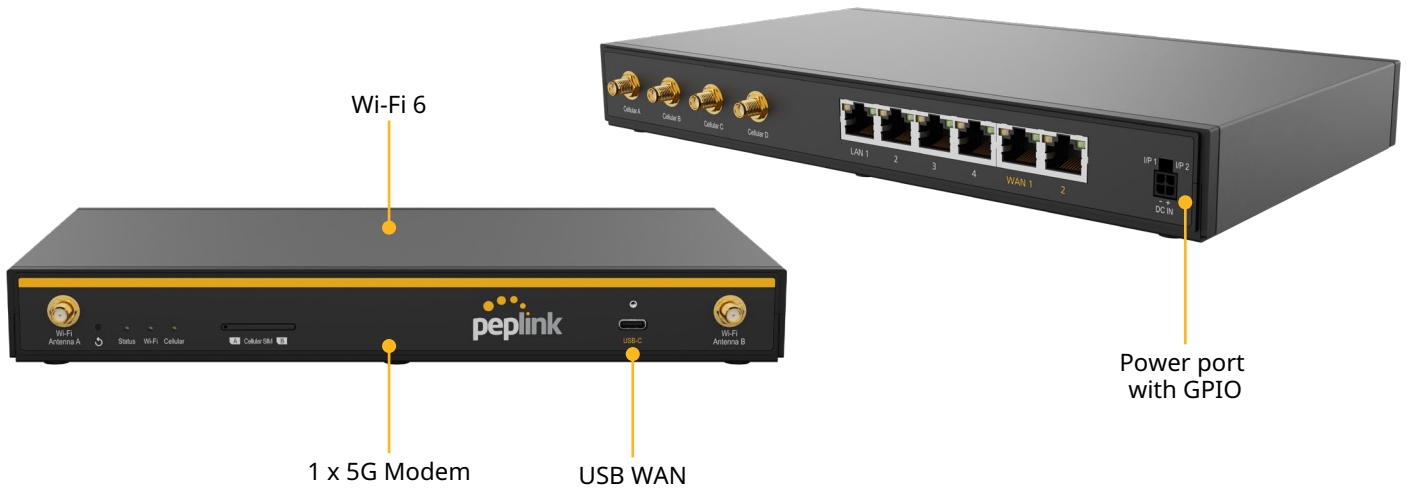
- Firmware is constantly updated to patch vulnerabilities and improve performance
- Futureproof your network as Peplink never ends support for older devices



A Game Changer with **SpeedFusion Connect**

- With a valid PrimeCare subscription, take advantage of all of SpeedFusion features without the need for an advanced network setup
- Easy to set up and use with our Companion App





Specifications

| | | | |
|---|---|------------------------------|--|
| WAN Interface | 2 x 10/100/1000M Ethernet 1 x Embedded Cellular Modem with a Redundant SIM Slot 1 x USB-C Interface | Antenna Connectors | 4x SMA Cellular Connectors 2x RP-SMA Wi-Fi Antenna Connectors |
| LAN Interface | 4x 10/100/1000M Ethernet | Power Input | Power Port: 10V – 30V DC AC Adapter: AC Input 100V–240V / DC Output 12V |
| Wi-Fi Interface | Simultaneous Dual-Band (2.4GHz / 5GHz) Wi-Fi 6, 2X2 MIMO Wi-Fi WAN and/or AP | Power Consumption | 29W (max.) |
| SpeedFusion features | Hot Failover ¹ / Smoothing ¹ / Bandwidth Bonding ¹ | Dimension | 10.31 x 6.33 x 1.31 inches / 262 x 161 x 33.5 mm |
| Number of SpeedFusion VPN Peers | 2 / 5 ¹ | Weight | 1.7 pounds / 756 grams |
| Router Throughput | 1Gbps | Operating Temperature | -40° – 113°F / -40° – 45°C |
| SpeedFusion VPN Throughput - No Encryption - 256-bit AES | 400 Mbps 200 Mbps | Humidity | 10% – 90% (non-condensing) |
| Recommended Users | 1-150 | Certifications | FCC, CE, RoHS |
| AP Controller | Standard | Package Content | 1x B One 5G 4x LTE/5G Antennas (ACW-235) 2x Dual Band Wi-Fi Antennas 1x 12V 3A 4 Pin Power Supply |
| Maximum Number of AP Supported | 30 / 50 ² | SIM Options | Nano-SIM (4FF) Peplink eSIM BYO eSIM (2 profiles) |
| Cellular Data Rate ³ (Downlink /Uplink) | 5G: 3.4 Gbps / 900 Mbps CAT-20: 1.6 Gbps/ 200 Mbps | Warranty | 1-Year Limited Warranty |

¹ Requires a PrimeCare subscription, complimentary for the first year.

² Available with licence add-on (AP-LC-50)

³ Theoretical maximum data rates.

Specifications are subject to change without notice.

Ordering Information

| Product Code | Regions | 5G Bands | LTE Bands |
|---|---------|--|--|
| B-ONE-5GN-T-PRM Embedded Modem(s): 1 x 5G | Global | 5G (SA & NSA) Sub 6Ghz: n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n29, n30, n38, n40, n41, n48, n66, n70, n71, n75, n76, n77, n78, n79 | B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B32, B34, B38, B39, B40, B41, B42, B43, B46, B48, B66, B71 |

Featured Add-on

| Product Code | Description |
|---------------------|---|
| PRM-B-1Y / PCP-B-1Y | PrimeCare B / PrimeCare+ B (1-Year) |
| PRM-B-2Y / PCP-B-2Y | PrimeCare B / PrimeCare+ B (2-Year) |
| PRM-B-4Y / PCP-B-4Y | PrimeCare B / PrimeCare+ B (4-Year) |
| ANT-SLM-40G-S-B-6 | Slim 40G - 4x4 MIMO 5G Ready Cellular Antenna System with GPS (Black) |
| ANT-MB-42G-S-W-6 | Mobility 42G - 4x4 MIMO 5G Ready Cellular Antenna System with Wi-Fi and GPS (White) |
| ANT-MB-42G-S-B-6 | Mobility 42G - 4x4 MIMO 5G Ready Cellular Antenna System with Wi-Fi and GPS (White) |

Deep Dive

| | | | |
|------------------------------|---|-------------------------------|--|
| Software | Pepwave MAX Firmware | Networking | NAT and IP Forwarding Static Routes Port Forwarding Many to One, One to One NAT NAT Pool SIP ALG, H.323 ALG UPnP, NAT-PMP |
| WAN | Support for PPPoE, Static IP, DHCP WAN Link Health Check Bandwidth Allowance Monitor Support for Dynamic DNS services WAN Port Convertible into LAN Port | | |
| LAN | DHCP Server for LAN Clients Extended DHCP Option DHCP Reservation DNS Proxy for LAN Clients VLAN on LAN Support | AP Controller | Support for Pepwave AP Series Auto AP Discovery Auto AP Firmware Management AP Profile Configuration Wi-Fi Usage Statistics |
| Security | Stateful Firewall DoS Prevention Web Blocking | Captive Portal Support | Support for Wired and Wireless LAN clients Support RADIUS Authentication Time and Usage Quotas on Open Access Mode Built-in Customizable Splash Page |
| Complete VPN Solution | SpeedFusion VPN/SpeedFusion <ul style="list-style-type: none">• Hot Failover• Site-to-Site VPN• 256-bit AES Encryption• Pre-shared Key Authentication• Dynamic Routing X.509 Certificate Support * IPsec VPN (Network-to-Network) ^ | Device Management | Web Administrative Interface Command Line Interface InControl Cloud Management Email Notification Active Client & Session Lists Bandwidth Usage Statistics Syslog Service SNMP v1, v2c and v3 |
| Advanced QoS | Individual Bandwidth Limit Application Prioritization <ul style="list-style-type: none">• SIP, HTTPS, VPN QoS• Custom Application QoS | | |