



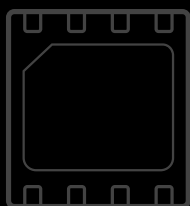
# B One 5G

**TAA** COMPLIANT

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

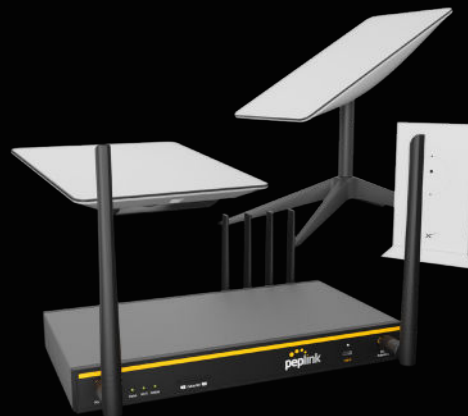
**Unbreakable** VoIP, **Unbreakable** Video calls

**Great Value**



## 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 Peplink App

- 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

## Key B One 5G Benefits



### Dual WAN

architecture keeps you connected even when one of your Internet lines goes down



### SpeedFusion

technology seamlessly bonds multiple Internet connections into one more reliable Internet feed



### Built-in 5G/LTE

cellular modem backs up your primary wired connection or serves as your primary high-speed fixed-wireless connection

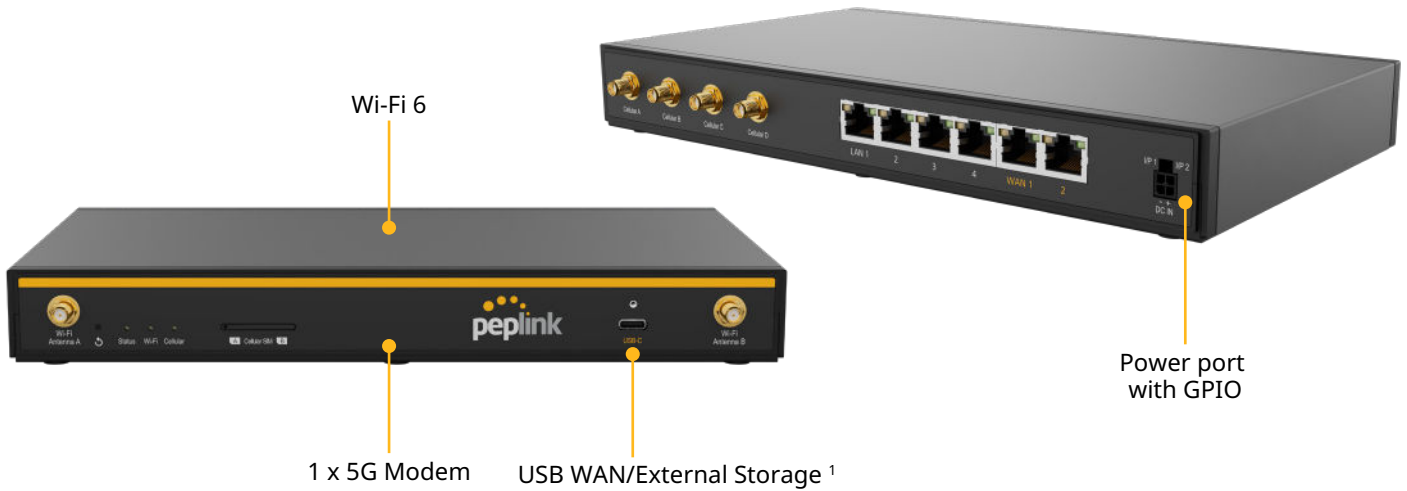
## Use Cases

### OFFICE



### RV





## Specifications

|   |   |                              |   |
|---|---|------------------------------|---|
| <b>WAN Interface</b>  | 2 x 10/100/1000M Ethernet<br>1 x Embedded Cellular Modem with a Redundant SIM Slot<br>1 x USB-C Interface | <b>Antenna Connectors</b>    | 4x SMA Cellular Connectors<br>2x RP-SMA Wi-Fi Antenna Connectors  |
| <b>LAN Interface</b>  | 4x 10/100/1000M Ethernet  | <b>Power Input</b>           | Power Port: 10V – 30V DC<br>AC Adapter: AC Input 100V–240V / DC Output 12V  |
| <b>Wi-Fi Interface</b>  | Simultaneous Dual-Band (2.4GHz / 5GHz)<br>Wi-Fi 6, 2X2 MIMO<br>Wi-Fi WAN and/or AP                        | <b>Power Consumption</b>     | 7W (nominal), 19W (max. without USB-C output <sup>6</sup> )   |
| <b>SpeedFusion features</b>   | Hot Failover <sup>2</sup> / Smoothing <sup>2</sup> / Bandwidth Bonding <sup>2</sup>                       | <b>Dimension</b>             | 10.31 x 6.33 x 1.31 inches / 262 x 161 x 33.5 mm  |
| <b>Number of SpeedFusion VPN Peers</b>                                | 2 / 5 / 10 / 20 <sup>3</sup>  | <b>Weight</b>                | 1.7 pounds / 756 grams  |
| <b>Router Throughput</b>  | 1Gbps   | <b>Operating Temperature</b> | - 40° – 113°F / - 40° – 45°C  |
| <b>SpeedFusion VPN Throughput</b><br>- No Encryption<br>- 256-bit AES | 400 Mbps<br>200 Mbps  | <b>Humidity</b>              | 10% – 90% (non-condensing)  |
| <b>Recommended Users</b>  | 1-150   | <b>Certifications</b>        | FCC, CE, RoHS   |
| <b>AP Controller</b>  | Standard  | <b>Package Content</b>       | 1x B One 5G<br>4x LTE/5G Antennas<br>2x Dual Band Wi-Fi Antennas<br>1x 12V 3A 4 Pin Power Supply (ACW-672)                    |
| <b>Maximum Number of AP Supported</b>                                 | 30 / 50 <sup>4</sup>  | <b>SIM Options</b>           | Nano-SIM (4FF)<br>Peplink eSIM<br>BYO eSIM (2 profiles)<br>RemoteSIM from SIM Injector <sup>7</sup><br>FusionSIM <sup>7</sup> |
| <b>Cellular Data Rate <sup>5</sup> (Downlink / Uplink)</b>            | 5G: 3.4 Gbps / 900 Mbps<br>CAT-20: 1.6 Gbps/ 200 Mbps   | <b>Warranty</b>              | 1-Year Limited Warranty   |

<sup>1</sup> Requires LIC-DOC license and firmware 8.5.2 or above to enable Docker.

<sup>2</sup> Requires a PrimeCare subscription, complimentary for the first year.

<sup>3</sup> 5 SpeedFusion VPN Peers are enabled with PrimeCare Subscription. 10 or 20 SpeedFusion VPN peers can be enabled with software license (PVN-LC-10 and PVN-LC-20).

<sup>4</sup> Available with licence add-on (AP-LC-50).

<sup>5</sup> Theoretical maximum data rates.

<sup>6</sup> USB-C Output : 5V at 2A can be delivered to power the MAX Adapter or other USB dongles for USB WAN.

<sup>7</sup> RemoteSIM and FusionSIM are compatible with hardware version 2 or above.

Specifications are subject to change without notice.

## Ordering Information

| Product Code   | Regions   | 5G Bands   | LTE Bands  |
|--|---|--|--|
| B-ONE-5GN-T-PRM<br>Embedded Modem(s):<br>1 x 5G  | Global*<br><br>*US Carrier Certifications:<br>AT&T, T-Mobile, Verizon (C-Band),<br>FirstNet | 5G (SA & NSA) Sub 6Ghz:<br>n1, n2, n3, n5, n7, n8, n12, n13,<br>n14, n18, n20, n25, n26, n28, n29,<br>n30, n38, n40, n41, n48, n66, n70,<br>n71, n75, n76, n77, n78, n79 | B1, B2, B3, B4, B5, B7, B8, B12, B13,<br>B14, B17, B18, B19, B20, B25, B26,<br>B28, B29, B30, B32, B34, B38, B39,<br>B40, B41, B42, B43, B46, B48, B66,<br>B71 |
| B-ONE-5GN-T-PRM-3Y<br>(3 Years of PrimeCare+ Included)<br>Embedded Modem(s):<br>1 x 5G | Global*<br><br>*US Carrier Certifications:<br>AT&T, T-Mobile, Verizon (C-Band),<br>FirstNet | 5G (SA & NSA) Sub 6Ghz:<br>n1, n2, n3, n5, n7, n8, n12, n13,<br>n14, n18, n20, n25, n26, n28, n29,<br>n30, n38, n40, n41, n48, n66, n70,<br>n71, n75, n76, n77, n78, n79 | B1, B2, B3, B4, B5, B7, B8, B12, B13,<br>B14, B17, B18, B19, B20, B25, B26,<br>B28, B29, B30, B32, B34, B38, B39,<br>B40, B41, B42, B43, B46, B48, B66,<br>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)   |
| ACW-791             | Peplink 4-Pin to USB-C Power Cable  |
| ACW-634             | 10ft DC Power Cable   |
| ACW-235             | Indoor LTE/5G Very Wideband Cellular Antenna  |
| ACW-341             | Dual-Band Indoor Wi-Fi Omni Antenna in Black (RP-SMA)                               |
| 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 and Wi-Fi Antenna System with GPS (White) |
| ANT-MB-42G-S-B-6    | Mobility 42G - 4x4 MIMO 5G Ready Cellular and Wi-Fi Antenna System with GPS (Black) |

## Deep Dive

|                              |  |                               |  |
|------------------------------|--|-------------------------------|--|
| <b>Software</b>              | Pepwave MAX Firmware   | <b>Networking</b>             | NAT and IP Forwarding<br>Static Routes<br>Port Forwarding<br>Many to One, One to One NAT<br>NAT Pool<br>SIP ALG, H.323 ALG<br>UPnP, NAT-PMP  |
| <b>WAN</b>                   | Support for PPPoE, Static IP, DHCP<br>WAN Link Health Check<br>Bandwidth Allowance Monitor<br>Support for Dynamic DNS services   |                               |  |
| <b>LAN</b>                   | DHCP Server for LAN Clients<br>Extended DHCP Option<br>DHCP Reservation<br>DNS Proxy for LAN Clients<br>VLAN on LAN Support  | <b>AP Controller</b>          | Support for Pepwave AP Series<br>Auto AP Discovery<br>Auto AP Firmware Management<br>AP Profile Configuration<br>Wi-Fi Usage Statistics  |
| <b>Security</b>              | Stateful Firewall<br>DoS Prevention<br>Web Blocking  | <b>Captive Portal Support</b> | Support for Wired and Wireless LAN clients<br>Support RADIUS Authentication<br>Time and Usage Quotas on Open Access Mode<br>Built-in Customizable Splash Page  |
| <b>Complete VPN Solution</b> | SpeedFusion VPN/SpeedFusion<br>• Hot Failover<br>• Site-to-Site VPN<br>• 256-bit AES Encryption<br>• Pre-shared Key Authentication<br>• Dynamic Routing<br>X.509 Certificate Support *<br>IPsec VPN (Network-to-Network) ^ | <b>Device Management</b>      | Web Administrative Interface<br>Command Line Interface<br>InControl Cloud Management<br>Email Notification<br>Active Client & Session Lists<br>Bandwidth Usage Statistics<br>Syslog Service<br>SNMP v1, v2c and v3 |
| <b>Advanced QoS</b>          | Individual Bandwidth Limit<br>Application Prioritization<br>• SIP, HTTPS, VPN QoS<br>• Custom Application QoS  |                               |  |