



# B One 5G

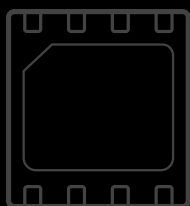
5G Connectivity. Instant Reliability



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

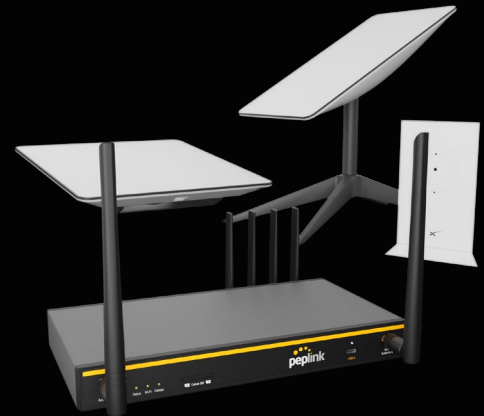
**Unbreakable** VoIP, **Unbreakable** Video calls

**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

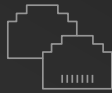




## A Game Changer with Peplink App

- 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

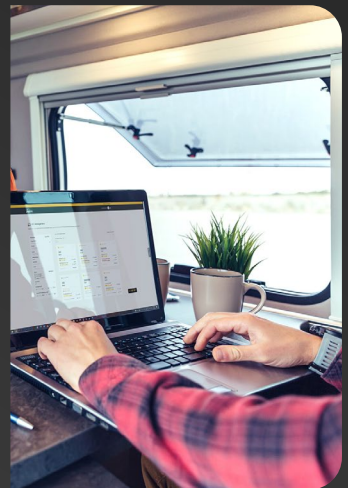
cellular modem backs up your primary wired connection or serves as your primary high-speed fixed-wireless connection

## Use Cases

### OFFICE



### RV





## Specifications

<b>WAN Interface</b>	2 x 10/100/1000M Ethernet 1 x Embedded Cellular Modem with a Redundant SIM Slot 1 x USB-C Interface	<b>Antenna Connectors</b>	4x SMA Cellular Connectors 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 AC Adapter: AC Input 100V–240V / DC Output 12V
<b>Wi-Fi Interface</b>	Simultaneous Dual-Band (2.4GHz / 5GHz) Wi-Fi 6, 2X2 MIMO Wi-Fi WAN and/or AP	<b>Power Consumption</b>	7W (nominal), 19W (max. without USB-C output <sup>4</sup> )
<b>SpeedFusion features</b>	Hot Failover <sup>1</sup> / Smoothing <sup>1</sup> / Bandwidth Bonding <sup>1</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 <sup>1</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> - No Encryption - 256-bit AES	400 Mbps 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 4x LTE/5G Antennas 2x Dual Band Wi-Fi Antennas 1x 12V 3A 4 Pin Power Supply
<b>Maximum Number of AP Supported</b>	30 / 50 <sup>2</sup>	<b>SIM Options</b>	Nano-SIM (4FF) Peplink eSIM BYO eSIM (2 profiles)
<b>Cellular Data Rate <sup>3</sup> (Downlink /Uplink)</b>	5G: 3.4 Gbps / 900 Mbps CAT-20: 1.6 Gbps/ 200 Mbps	<b>Warranty</b>	1-Year Limited Warranty

<sup>1</sup> Requires a PrimeCare subscription, complimentary for the first year.

<sup>2</sup> Available with licence add-on (AP-LC-50)

<sup>3</sup> Theoretical maximum data rates.

<sup>4</sup> USB-C Output : 5V at 2A can be delivered to power the MAX Adapter or other USB dongles for USB WAN.

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*  *US Carrier Certifications: AT&T, T-Mobile, Verizon (C-Band), FirstNet	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)
ACW-791	Peplink 4-Pin Microfit 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 Static Routes Port Forwarding Many to One, One to One NAT NAT Pool SIP ALG, H.323 ALG UPnP, NAT-PMP
<b>WAN</b>	Support for PPPoE, Static IP, DHCP WAN Link Health Check Bandwidth Allowance Monitor Support for Dynamic DNS services		
<b>LAN</b>	DHCP Server for LAN Clients Extended DHCP Option DHCP Reservation DNS Proxy for LAN Clients VLAN on LAN Support	<b>AP Controller</b>	Support for Pepwave AP Series Auto AP Discovery Auto AP Firmware Management AP Profile Configuration Wi-Fi Usage Statistics
<b>Security</b>	Stateful Firewall DoS Prevention Web Blocking	<b>Captive Portal Support</b>	Support for Wired and Wireless LAN clients Support RADIUS Authentication Time and Usage Quotas on Open Access Mode Built-in Customizable Splash Page
<b>Complete VPN Solution</b>	SpeedFusion VPN/SpeedFusion <ul style="list-style-type: none"><li>• Hot Failover</li><li>• Site-to-Site VPN</li><li>• 256-bit AES Encryption</li><li>• Pre-shared Key Authentication</li><li>• Dynamic Routing</li></ul> X.509 Certificate Support * IPsec VPN (Network-to-Network) ^	<b>Device Management</b>	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
<b>Advanced QoS</b>	Individual Bandwidth Limit Application Prioritization <ul style="list-style-type: none"><li>• SIP, HTTPS, VPN QoS</li><li>• Custom Application QoS</li></ul>		