



B One 5G

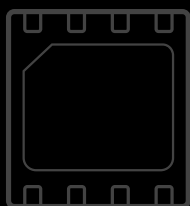
5G Connectivity. Instant Reliability



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

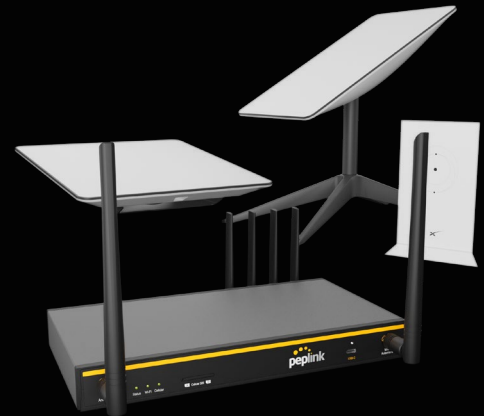
Unbreakable VoIP, **Unbreakable** Video calls

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

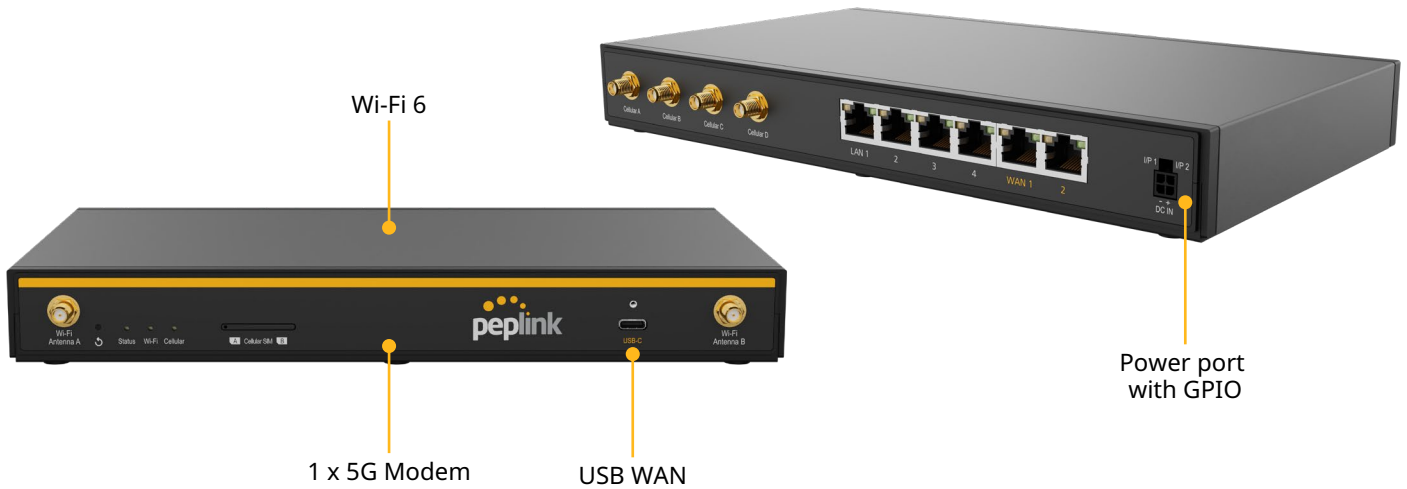
Use Cases

OFFICE



RV





Specifications

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	7W (nominal), 19W (max. without USB-C output *)
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 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.

⁴ 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

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		
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		

