TAA COMPLIANT

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**

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B One 5G

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

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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

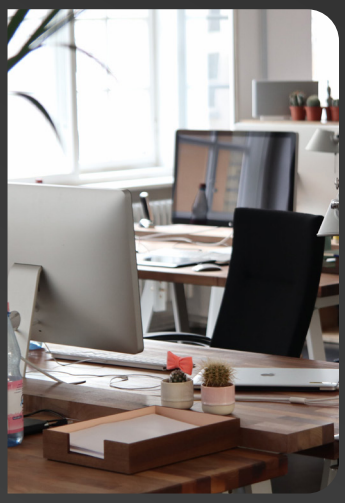
Dual WAN
architecture keeps you connected even when one of your Internet lines goes down

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

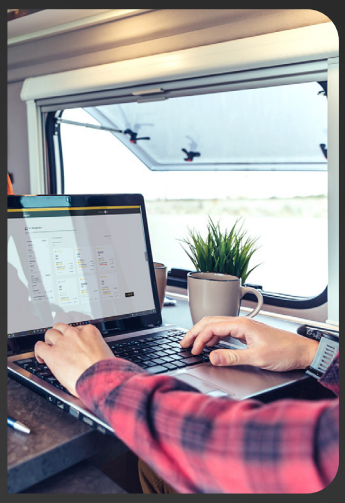
Built-in 5G/LTE
cellular modem backs up your primary wired connection or serves as your primary high-speed fixed-wireless connection

Use Cases

OFFICE



RV



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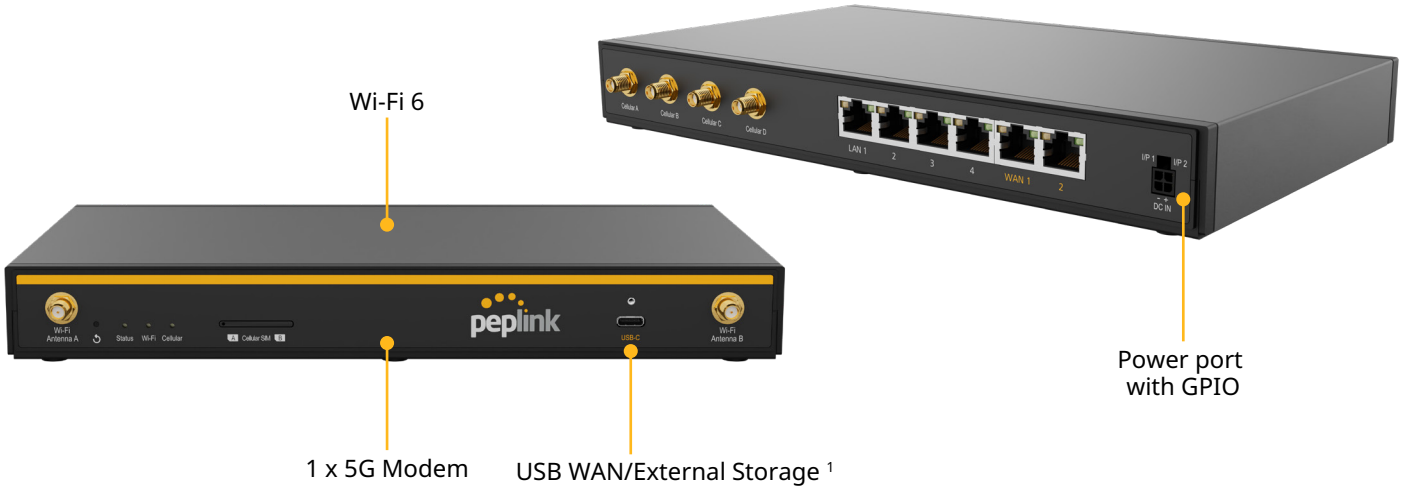
B One 5G



Specifications

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

[1] Requires LIC-DOC license and firmware 8.5.2 or above to enable Docker.
[2] Requires a PrimeCare subscription, complimentary for the first year.
[3] 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).
[4] Available with licence add-on (AP-LC-50).
[5] Theoretical maximum data rates.
[6] USB-C Output : 5V at 2A can be delivered to power the MAX Adapter or other USB dongles for USB WAN.
[7] RemoteSIM and FusionSIM are compatible with hardware version 2 or above.

Specifications are subject to change without notice.

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B One 5G

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
B-ONE-5GN-T-PRM-3Y (3 Years of PrimeCare+ Included) 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 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)

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B One 5G

Deep Dive

Software
Pepwave MAX Firmware

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

Security
Stateful Firewall
DoS Prevention
Web Blocking

Complete VPN Solution
SpeedFusion VPN/SpeedFusion
- 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) ^

Advanced QoS
Individual Bandwidth Limit
Application Prioritization
- SIP, HTTPS, VPN QoS
- Custom Application QoS

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

AP Controller
Support for Pepwave AP Series
Auto AP Discovery
Auto AP Firmware Management
AP Profile Configuration
Wi-Fi Usage Statistics

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

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

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