peplink

B One 5G

5G Connectivity. Instant Reliability

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

Labels on device: Wi-Fi Antenna A · Status · Wi-Fi · Cellular · A Cellular SIM B · peplink · USB-C · Wi-Fi Antenna

Bring your **own eSIM or physical SIM** for 5G connectivity
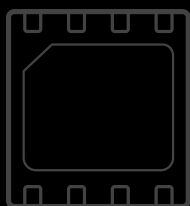
Add 5G to improve your **Network Reliability**

**Seamless failover** internet services (Cable, Fiber) to 5G

Unbreakable VoIP, **Unbreakable** Video calls

Great **Value**

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
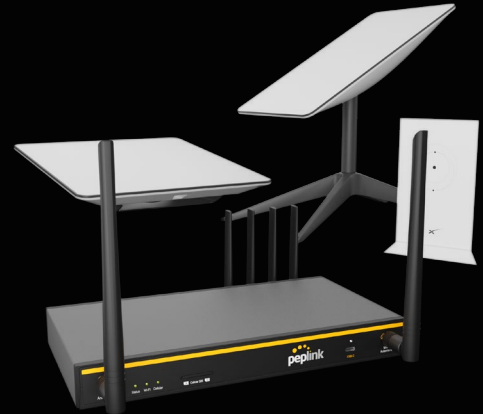
Made for
Fixed Wireless Access (FWA) with 5G

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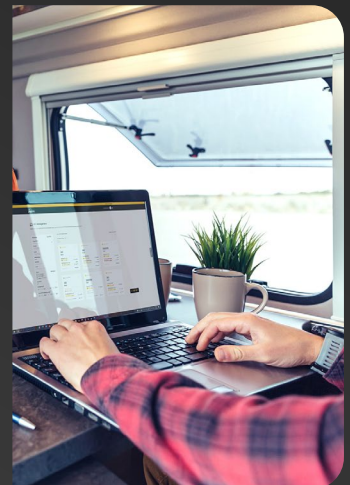
Built-in 5G/LTE
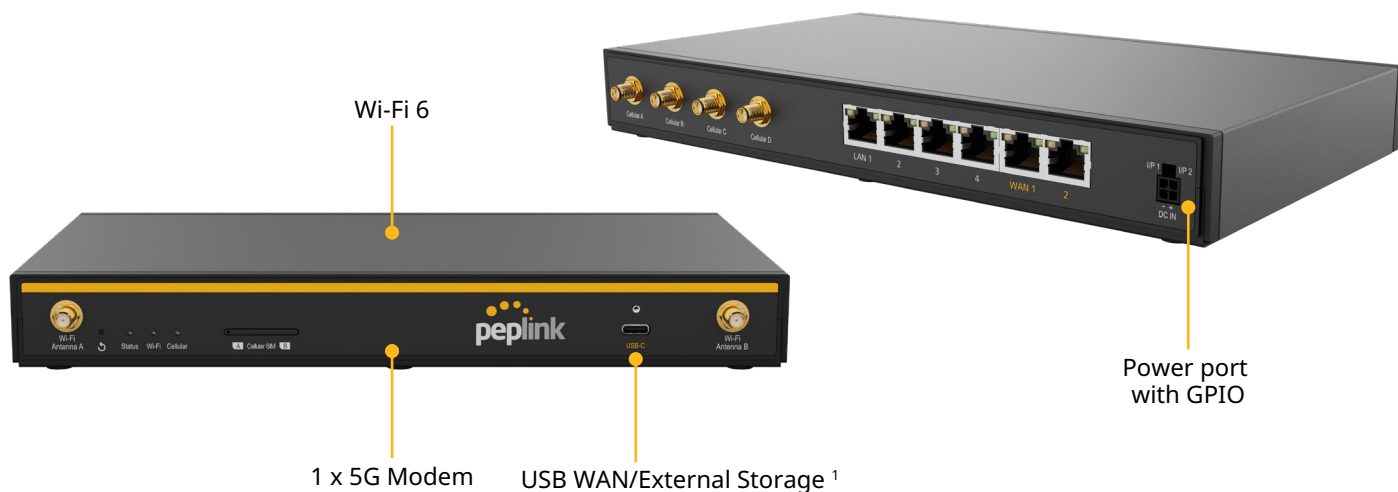cellular modem backs up your primary wired connection or serves as your primary high-speed fixed-wireless connection

Use Cases

OFFICE

RV

B One 5G

Wi-Fi 6

Power port
with GPIO

1 x 5G Modem   USB WAN/External Storage [1]

Wi-Fi
Antenna A   Status Wi-Fi Cellular   Cellular SIM   USB-C   Wi-Fi
Antenna B

Cellular A Cellular B Cellular C Cellular D   LAN 1   2   3   4   WAN 1   2   I/P 1 I/P 2   DC IN

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 [6])
SpeedFusion features	Hot Failover [2] / Smoothing [2] / Bandwidth Bonding [2]	**Dimension**	10.31 x 6.33 x 1.31 inches / 262 x 161 x 33.5 mm
		Weight	1.7 pounds / 756 grams
Number of SpeedFusion VPN Peers	2 / 5 / 10 / 20 [3]	**Operating Temperature**	- 40° – 113°F / - 40° – 45°C
		Humidity	10% – 90% (non-condensing)
Router Throughput	1Gbps	**Certifications**	FCC, CE, RoHS
SpeedFusion VPN Throughput		**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)
- No Encryption	400 Mbps		
- 256-bit AES	200 Mbps	**SIM Options**	Nano-SIM (4FF) Peplink eSIM BYO eSIM (2 profiles) RemoteSIM from SIM Injector [7] FusionSIM [7]
Recommended Users	1-150		
AP Controller	Standard		
Maximum Number of AP Supported	30 / 50 [4]	**Warranty**	1-Year Limited Warranty
Cellular Data Rate [5] (Downlink / Uplink)	5G: 3.4 Gbps / 900 Mbps CAT-20: 1.6 Gbps/ 200 Mbps		

[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.

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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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Deep Dive

Software	Pepwave MAX Firmware	**Networking**	NAT and IP Forwarding
			Static Routes
WAN	Support for PPPoE, Static IP, DHCP		Port Forwarding
	WAN Link Health Check		Many to One, One to One NAT
	Bandwidth Allowance Monitor		NAT Pool
	Support for Dynamic DNS services		SIP ALG, H.323 ALG
			UPnP, NAT-PMP

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
- 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
- SIP, HTTPS, VPN QoS
- Custom Application QoS