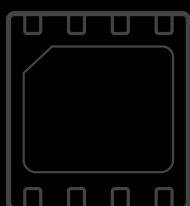peplink

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

peplink

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
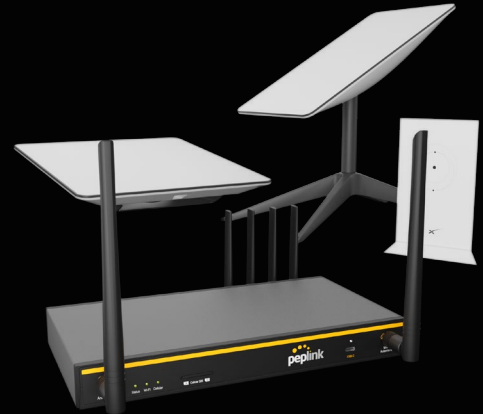
Made for
Fixed Wireless Access (FWA) with 5G

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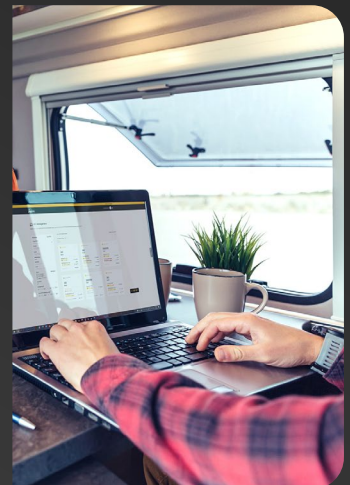
Built-in 5G/LTE
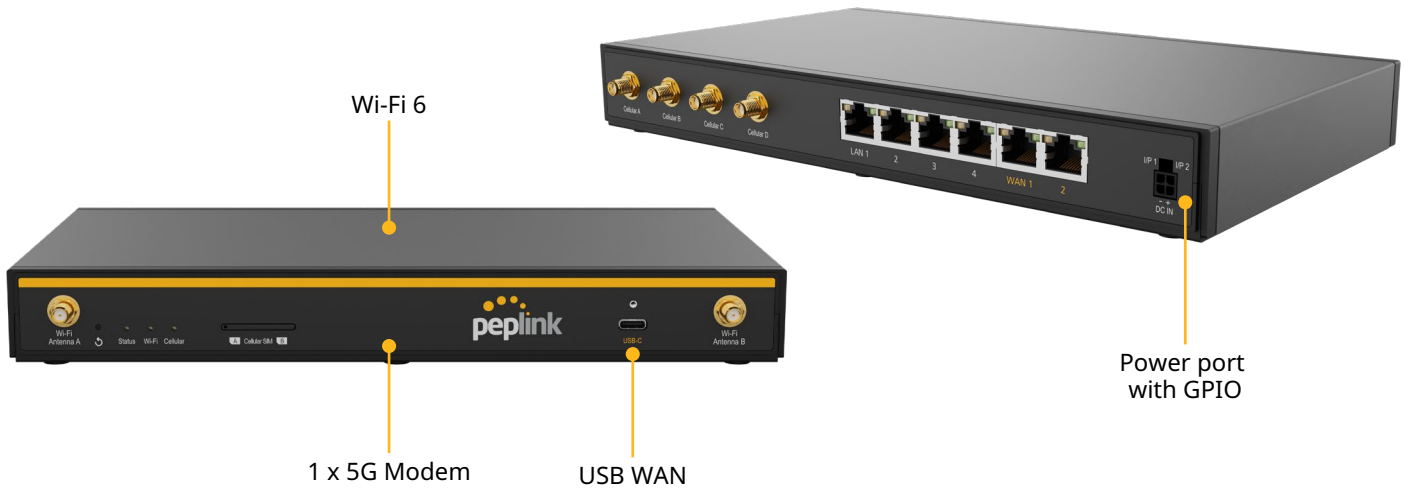cellular modem backs up your primary wired connection or serves as your primary high-speed fixed-wireless connection

Use Cases

OFFICE

RV

B One 5G

Wi-Fi 6

Power port
with GPIO

1 x 5G Modem

USB WAN

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
		Power Input	Power Port: 10V – 30V DC AC Adapter: AC Input 100V–240V / DC Output 12V
LAN Interface	4x 10/100/1000M Ethernet		
		Power Consumption	29W (max.)
Wi-Fi Interface	Simultaneous Dual-Band (2.4GHz / 5GHz) Wi-Fi 6, 2X2 MIMO Wi-Fi WAN and/or AP	**Dimension**	10.31 x 6.33 x 1.31 inches / 262 x 161 x 33.5 mm
		Weight	1.7 pounds / 756 grams
SpeedFusion features	Hot Failover [1] / Smoothing [1] / Bandwidth Bonding [1]	**Operating Temperature**	- 40° – 113°F / - 40° – 45°C
		Humidity	10% – 90% (non-condensing)
Number of SpeedFusion VPN Peers	2 / 5 [1]	**Certifications**	FCC, CE, RoHS
Router Throughput	1Gbps	**Package Content**	1x B One 5G 4x LTE/5G Antennas (ACW-235) 2x Dual Band Wi-Fi Antennas 1x 12V 3A 4 Pin Power Supply
SpeedFusion VPN Throughput **- No Encryption** **- 256-bit AES**	 400 Mbps 200 Mbps		
		SIM Options	Nano-SIM (4FF) Peplink eSIM BYO eSIM (2 profiles) [1]
Recommended Users	1-150		
AP Controller	Standard	**Warranty**	1-Year Limited Warranty
Maximum Number of AP Supported	30 / 50 [2]		
Cellular Data Rate [3] (Downlink /Uplink)	5G: 3.4 Gbps / 900 Mbps CAT-20: 1.6 Gbps/ 200 Mbps		

[1] Requires a PrimeCare subscription, complimentary for the first year.
[2] Available with licence add-on (AP-LC-50)
[3] Theoretical maximum data rates.

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

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-634	10ft DC Power Cable
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)

B One 5G

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	**AP Controller**	Support for Pepwave AP Series
	DHCP Reservation		Auto AP Discovery
	DNS Proxy for LAN Clients		Auto AP Firmware Management
	VLAN on LAN Support		AP Profile Configuration
			Wi-Fi Usage Statistics
Security	Stateful Firewall		
	DoS Prevention	**Captive Portal Support**	Support for Wired and Wireless LAN clients
	Web Blocking		Support RADIUS Authentication
			Time and Usage Quotas on Open Access Mode
Complete VPN Solution	SpeedFusion VPN/SpeedFusion		Built-in Customizable Splash Page
	• Hot Failover		
	• Site-to-Site VPN	**Device Management**	Web Administrative Interface
	• 256-bit AES Encryption		Command Line Interface
	• Pre-shared Key Authentication		InControl Cloud Management
	• Dynamic Routing		Email Notification
	X.509 Certificate Support *		Active Client & Session Lists
	IPsec VPN (Network-to-Network) ^		Bandwidth Usage Statistics
			Syslog Service
Advanced QoS	Individual Bandwidth Limit		SNMP v1, v2c and v3
	Application Prioritization		
	• SIP, HTTPS, VPN QoS		
	• Custom Application QoS		

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