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

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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
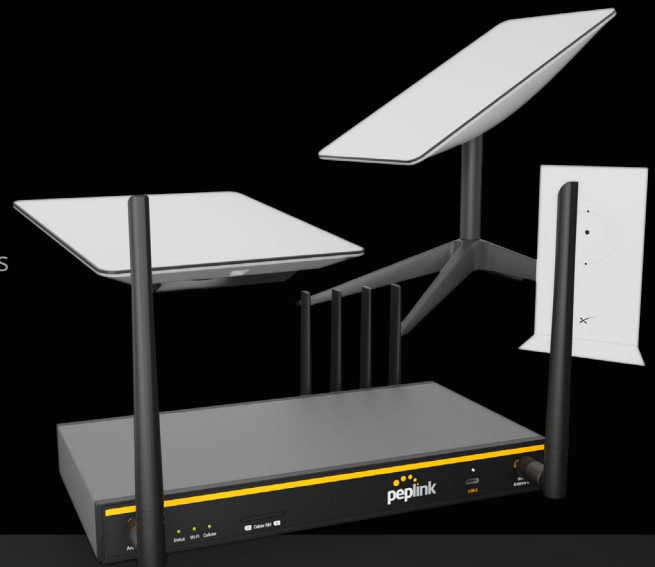
Made for
Fixed Wireless Access (FWA) with 5G

- 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

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![Peplink logo]
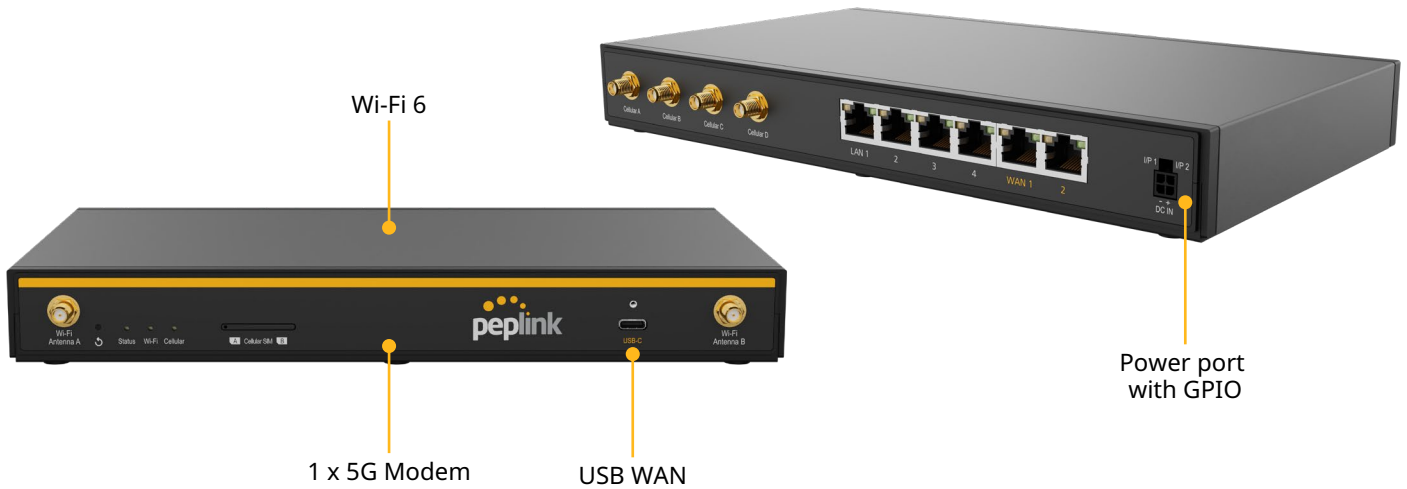
Long Term **Support**

- 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
SpeedFusion Connect

- 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

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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
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**	29W (max.)
		Dimension	10.31 x 6.33 x 1.31 inches / 262 x 161 x 33.5 mm
SpeedFusion features	Hot Failover [1] / Smoothing [1] / Bandwidth Bonding [1]	**Weight**	1.7 pounds / 756 grams
		Operating Temperature	-40° – 113°F / -40° – 45°C
Number of SpeedFusion VPN Peers	2 / 5 [1]	**Humidity**	10% – 90% (non-condensing)
		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)
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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Ordering Information

Product Code	Regions	5G Bands	LTE Bands
B-ONE-5GN-T-PRM Embedded Modem(s): **1 x 5G**	Global	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)
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 Antenna System with Wi-Fi and GPS (White)
ANT-MB-42G-S-B-6	Mobility 42G - 4x4 MIMO 5G Ready Cellular Antenna System with Wi-Fi and GPS (White)

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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
	WAN Port Convertible into LAN Port		UPnP, NAT-PMP

LAN	DHCP Server for LAN Clients	**AP Controller**	Support for Pepwave AP Series
	Extended DHCP Option		Auto AP Discovery
	DHCP Reservation		Auto AP Firmware Management
	DNS Proxy for LAN Clients		AP Profile Configuration
	VLAN on LAN Support		Wi-Fi Usage Statistics

Security	Stateful Firewall	**Captive Portal Support**	Support for Wired and Wireless LAN clients
	DoS Prevention		Support RADIUS Authentication
	Web Blocking		Time and Usage Quotas on Open Access Mode
			Built-in Customizable Splash Page

Complete VPN Solution	SpeedFusion VPN/SpeedFusion	**Device Management**	Web Administrative Interface
	• Hot Failover		Command Line Interface
	• Site-to-Site VPN		InControl Cloud Management
	• 256-bit AES Encryption		Email Notification
	• Pre-shared Key Authentication		Active Client & Session Lists
	• Dynamic Routing		Bandwidth Usage Statistics
	X.509 Certificate Support *		Syslog Service
	IPsec VPN (Network-to-Network) ^		SNMP v1, v2c and v3

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