



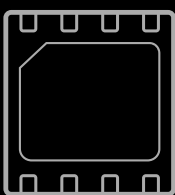
B One 5G

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 and OneWeb

- Bond multiple LEO Satellite Services connections together
- Load Balance your LEO Satellite Services with other internet services (5G/LTE, Cable, Fiber, FWA)
- Optimise your network with additional features requested specifically by LEO Satellite Services

Made for Fixed Wireless Access (FWA) with 5G

- Designed for use with MSP 5G/LTE Gateway devices
 - Bond various FWA together
Australia: Telstra / Optus / TPG (Vodafone)
New Zealand: Spark / OneNZ (Vodafone) / 2Degrees
 - 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 Pepink never ends support for older devices

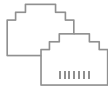


A Game Changer with SpeedFusion Connect

- 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



Key B One 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

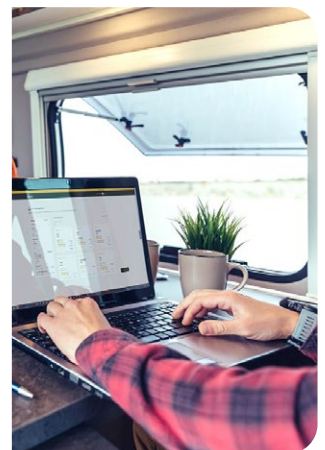
cellular modem backs up your primary wired connection or serves as your primary high-speed fixed-wireless connection

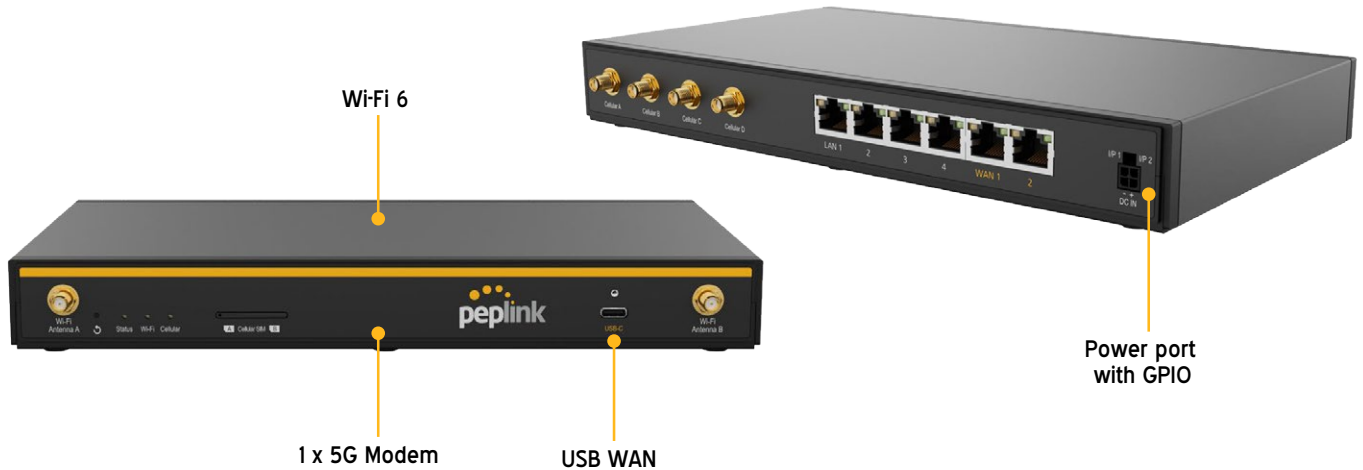
Use Cases

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
- **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 Failover¹, WAN Smoothing¹, Bandwidth Bonding¹
- **Number of SpeedFusion VPN Peers:** 2 / 5¹
- **Router Throughput:** 1 Gbps
- **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 / 50²
- **Cellular Data Rate (Downlink /Uplink)³:** 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:** 29W (max.)
- **Dimensions:** 262 x 161 x 33.5mm
- **Weight:** 756 grams
- **Operating Temperature:** -40° – 45° C
- **Humidity:** 10% to 90% (non-condensing)
- **Certifications:** FCC, CE, RoHS
- **SIM Options:** Nano-SIM (4FF), Peplink eSIM, BYO eSIM (2 profiles)
- **Warranty:** 1-Year Limited Warranty
- **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

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



Ordering Information

Product Code	Embedded Modems	Regions	5G Bands	LTE Bands
B-ONE-5GN-T-PRM	1x 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

Feature 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 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 (Black)



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 Prioritisation
• 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 Customisable 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