

B One

Impressive Capability with Incredible Value



FAQ

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Is the B One suitable for me?



What is the B One?

The B One is a router designed to be used in branch offices, retail locations, small businesses, or homes. The device features 2 Ethernet WAN ports, 4 Ethernet LAN ports, and WiFi WAN capabilities to increase its flexibility. It can also easily integrate with Starlink or Fixed Wireless Access technology such as the CPE modem from your internet service provider, USB dongle, or even your phone Wi-Fi hotspot by tethering. You can load balance between multiple WAN sources by leveraging Peplink's SpeedFusion technology to enhance network performance and reliability.



How fast is the B One?

The B One has a rated throughput of 1000Mbps. Its SpeedFusion VPN throughput with encryption and without encryption are 400Mbps and 200Mbps respectively.

For more information, the complete datasheet can be found [here](#).



How many different ways can the B One connect to the Internet?

B One can utilize Ethernet, Wi-Fi WAN and USB-WAN inputs. The USB port on the front of the router can be used as a connection point for a USB cellular modem or a Peplink MAX Adapter. The USB port can also be connected to an Ethernet cable with the use of a USB-Ethernet adapter. You can find the tested compatible modems [here](#), and Ethernet adapters that have been tested are discussed [here](#).



Can I use Starlink with the B One?

Absolutely. A Starlink antenna can be connected to the Ethernet WAN port with the use of a Starlink Ethernet adapter. If you have 2 Starlink antennas connected to the B One, you can utilize SpeedFusion Bonding technology to enhance internet performance.



How many concurrent connections to the Internet can the router make?

The B One can use 2 Ethernet connections concurrently. Multiple WAN connections enable SpeedFusion, which is included in PrimeCare. When 2 WANs are active, users can leverage Peplink’s innovative SpeedFusion technologies such as Bandwidth Bonding to cater to bandwidth-intensive applications, or Forward Error Correction and Smoothing for minimal latency and unbreakable connectivity. To learn more about SpeedFusion and its amazing technology, click [here](#).

What are the differences between the B One and the Balance Two?

	Balance Two	B One
Quick Look		
Router Throughput	1000Mbps	1000Mbps
SpeedFusion VPN Throughput (No Encryption)	150Mbps	400Mbps
SpeedFusion VPN Throughput (256-bit AES)	150Mbps	200Mbps
Power Consumption	40W (max.)	19W (max.)
Interface		
Ethernet Port	3x 1000M Ethernet Port	4x 1000M Ethernet Port
Wi-Fi	No	Wi-Fi 6
Power Input		
- 4pin Molex Micro-Fit Connector	No	Yes
Features		
GPIO	No	Yes
Ignition Sensing	No	No
Wi-Fi WAN	No	Yes
Hot Failover	Yes	Yes [#]
Smoothing	Yes	Yes [#]
Bandwidth Bonding	Yes ^{&}	Yes [#]

& Requires a separate SpeedFusion Bonding License
 # Requires a PrimeCare Subscription



What is the best use case for the B One?

The answer isn't set in stone. From Small Home to Branch Office applications, the B One has got you covered. Click [here](#) and we can work out a cost-effective solution with the best overall performance together.

What is included with the B One?



What's in the package?

Along with the router, there is a 12V3A 4-pin power supply, and 2x dual band Wi-Fi antennas.



Is a warranty included with this product?

All products come with a one-year PrimeCare plan which provides warranty services. The CarePlan can be extended on a year-by-year basis.

CarePlan offerings can be purchased from our [Certified Partners](#) or directly from the Peplink eStore at the time of the sale or thereafter.

PrimeCare Model (SKU no. ending with -PRM)	PrimeCare+	PrimeCare
B One <i>B-ONE-T-PRM</i>	1-Year 2-Year 4-Year	1-Year 2-Year 4-Year



What is PrimeCare?

PrimeCare makes SpeedFusion networks easier to build. It's a subscription that bundles InControl, warranty services, SpeedFusion license upgrades, FusionHub licenses, ticket support, and standard RMA.



What is PrimeCare+?

PrimeCare+ is an upgrade to PrimeCare. It includes everything offered in PrimeCare and comes with advanced hardware replacement RMA and 24x7 ticket support.



Which PrimeCare Plan should I buy for the B One?

PrimeCare Plan A is suitable for the B One.



How do I know whether my router is a PrimeCare device?

If you look at the silver label underneath your device, the SKU of your product should have a -PRM suffix.



What is SpeedFusion Connect?

SpeedFusion Connect is Peplink's global network of SpeedFusion endpoints. With an active CarePlan or SpeedFusion Connect Usage data plan, you can utilize SpeedFusion wherever you are, eliminating the need for any additional hardware. Unsure of what you need? Check out this useful [post](#).



Does the B One employ Peplink's SpeedFusion technology or SpeedFusionVPN?

SpeedFusionVPN is included in all products. For the B One, you can utilize the SpeedFusion technology, including Hot Failover, WAN Smoothing, and Bandwidth Bonding, with a PrimeCare or PrimeCare+ subscription.



What is SpeedFusion technology?

Peplink's patented SpeedFusion technology is a powerful VPN tunnel equipped with a variety of technologies such as Hot Failover, Smoothing, Bandwidth Bonding, and much more. This empowers users with the flexibility and tools required to achieve unbreakable connectivity in any vertical or scenario that they might find themselves in. Click [here](#) to learn more about SpeedFusion.



How can I purchase a license for SpeedFusion Connect with higher traffic speed and additional usage?

Easy. Look [here!](#)

Using the B One



Can the B One isolate IoT devices from computers used for work?

Yes. This is a very useful feature as more and more people work from home. You can establish multiple VLANs, and the admin has control over whether traffic is permitted to flow between them. Similarly, this can be accomplished on a “port basis”. You can also effectively establish a partition between various types of devices – and users.



Why would I use SpeedFusion VPN?

SpeedFusion VPN is a capability built-in to the B One. It permits the user to construct a VPN tunnel between Peplink devices. This tunnel can be configured to be either unencrypted or encrypted using AES-256 encryption. For example, if you have a B One at home and a Peplink router at work or in a different location, you can establish a connection between these locations, allowing the flow of resources from one location to the other (either a Layer 2 or Layer 3 tunnel may be constructed).



Is there a means to provide remote access?

Certainly, you have the option of using either L2TP or OpenVPN.



How do I set up Wi-Fi mesh?

Here's a [detailed video](#) explaining how to do so.



What voltage is required?

The router is furnished with a 12V3A 4-pin power supply. However, you can supply the router with 10-30V via a 4-pin Micro-Fit connector.



What is the power consumption of the B One?

The maximum power consumption is 19W.



How can I set up GPIO?

You can learn more about the GPIO setup from our [Ignition Sensing Guide](#).

Licenses and Accessories



Can I manage the B One remotely?

Yes, you can manage the B One remotely with InControl. The B One comes with a 1-year subscription to PrimeCare, which includes InControl functionality. You can extend PrimeCare beyond the first year for a nominal cost.



Where can I get the InControl license?

Every B One router comes with a year's subscription to InControl (IC2) with a PrimeCare subscription, so additional purchase is not required.



Can it connect to an OpenVPN server from a commercial VPN provider (ExpressVPN, ProtonVPN, etc)?

Yes. An optional license ([LIC-OPN-WAN](#)) will enable the OpenVPN WAN functionality.



Can I use cellular WAN for the B One?

B One does not come with a built-in cellular modem. To utilize cellular WAN, you can consider the B One 5G or other Peplink cellular routers.



What if I need more than 2 PepVPNs/SpeedFusion Peers?

The B One has the capability for 2 PepVPNs/SpeedFusion Peers “built-in”. 5 PepVPN/SpeedFusion Peers are enabled with a PrimeCare subscription.



Can I connect PrimeCare devices to my existing FusionHubs?

Yes, you can. PrimeCare devices will not count towards the peer limit of any FusionHub that it is connected to. For example, a FusionHub 20 normally supports up to 20 peers. This is particularly useful for connecting numerous sites that only require little bandwidth such as PoS terminals.

Using the B One



Does Peplink offer support for this product? What if I have difficulties setting it up?

First, Peplink Partners provide support to the users of the products they have sold, so always reach out to the place of purchase first.

For those who prefer self-service, Peplink has a very active [forum](#). Among the regular forum users are Peplink Partners, Peplink employees, and many very knowledgeable users. Generally, folks with questions get answers rather quickly. In the unlikely event of a suspected hardware or firmware issue, you can enter a [support ticket](#) with Peplink directly. In such cases, you will receive attention from some of the best engineers! Peplink supports its users like no other.



I can't access the Internet via the B One. What can I do?

Visit [this link](#) (troubleshooting section) for a basic software walkthrough and troubleshooting guide. If that doesn't work, reach out on [our forum](#) and the team will get you online.