

# BR2 Micro

Micro Router, Mighty Connectivity.



## FAQ

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## Is the BR2 Micro suitable for me?



### What is the BR2 Micro?

The BR2 Micro is an ultra-small sized router with dual modems. Its small form factor, light weight, ruggedized enclosure, and compatibility with USB-C power input make it suitable for confined spaces or carrying around. The device also features a convertible LAN/WAN port, GPS, GPIO, and Ignition Sensing. The dual cellular modem design enhances reliability and resilience with SpeedFusion Hot Failover and Bandwidth Bonding technology.



### How fast is the BR2 Micro?

The BR2 Micro has a rated throughput of 300Mbps. Its SpeedFusion VPN throughput with encryption and without encryption are 80Mbps and 60Mbps respectively.

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



### How many different ways can the BR2 Micro connect to the Internet?

The BR2 Micro has two built-in cellular modems, each fitted with a physical SIM slot. It can also connect to the network using BYO eSIM provided by your mobile carrier. Additionally, it features an Ethernet WAN port for wired access.



### Is the BR2 Micro suitable for mobile use?

Certainly! The BR2 Micro's rugged metal enclosure makes it suitable for mobile use. It can function in ambient temperatures ranging from -40 oF to 149 oF. It's also equipped with an industrial Micro-Fit power connector for secure power installation in vehicles and extreme locations.



### Can I use Starlink with the BR2 Micro?

Absolutely. A Starlink antenna can be connected to the Ethernet WAN port with the use of a Starlink Ethernet adapter.



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

The BR2 Micro can use 2 cellular connections concurrently. Multiple WAN connections enable SpeedFusion, which is included in PrimeCare. When 2 cellular 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 BR2 Micro and the BR1 Mini 5G?

	BR2 Micro	BR1 Mini 5G
<b>Quick Look</b>		
Router Throughput	300 Mbps	300 Mbps
SpeedFusion VPN Throughput (No Encryption)	80 Mbps	80 Mbps
SpeedFusion VPN Throughput (256-bit AES)	60 Mbps	60 Mbps
Power Consumption	8W (nominal) 13W (max.)	11W (nominal) 13W (max.)
Number of cellular modem	2	1
Cellular Modem Rate (Downlink/Uplink)	CAT-4: 150 Mbps / 50 Mbps	5G: 3.4 Gbps / 900 Mbps CAT-20: 1.6 Gbps/ 200 Mbps
Dimension	2.99 x 3.25 x 1.69 inches 76 x 83 x 43 mm	4.95 x 4.2 x 1.4 inches 125.7 x 107 x 35 mm
<b>Interface</b>		
Ethernet LAN Port	1 x 1000M Ethernet LAN/WAN Port	2 x 1000M Ethernet Port
Ethernet WAN Port	1 x 1000M Ethernet LAN/WAN Port	1 x 1000M Ethernet Port
Power Port	1 x 4 Pin Molex Micro-Fit Connector 1x USB-C Port	1 x 4 Pin Molex Micro-Fit Connector
Wi-Fi	No	No
<b>Features</b>		
GPIO	Yes	Yes
Ignition Sensing	Yes	Yes
Wi-Fi WAN	No	No
Hot Failover	Yes #	Yes #
Smoothing	Yes #	Yes #
Bandwidth Bonding	Yes #	Yes #

# Requires a PrimeCare Subscription



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## What is the best use case for the BR2 Micro?

The answer isn't set in stone. From industrial to mobility applications, the BR2 Micro has got you covered. It is especially beneficial for applications where lightweight and flexible power input are requirements. Click [here](#) and we can work out a cost-effective solution with the best overall performance together.

## What is included with the BR2 Micro?



### What's in the package?

Along with the router, there is a 12V 2A 4-pin power supply (ACW-632), a USB-C to USB-C cable with screw locking (ACW-620), a USB-C to USB-A adapter (ACW-622), 4x M2.5 x 3mm screws, and a pair of mounting brackets. Please note that MMCX cellular and GPS antennas are not included in the package.

A BR2 Micro Accessory Kit (BR2-MICRO-ACW-KIT) can be purchased if antennas are needed. The accessory kit includes 4x 3m MMCX to SMA-F magnetic cellular antenna bases (ACW-414), 1x 5m MMCX magnetic GPS antenna (ACW-415), and 4x cellular antennas (ACW-237).



### 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
BR2 Micro <i>MAX-BR2-MICRO-LTE-US-PRM</i> <i>MAX-BR2-MICRO-LTE-E-PRM</i>	<a href="#">1-Year</a>   <a href="#">2-Year</a>   <a href="#">4-Year</a>	<a href="#">1-Year</a>   <a href="#">2-Year</a>   <a href="#">4-Year</a>



# FAQ - BR2 Micro



## 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 BR2 Micro?

PrimeCare Plan B is suitable for the BR2 Micro.



## 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](#).

All products with active Care Plan come with yearly free SpeedFusion Connect usage data according to the tier of the product. Please visit [here](#) for details.



## What is the Peplink eSIM Data Plan?

With a Peplink eSIM Data Plan, you can instantly provide connectivity to the BR2 Micro. This is an on-demand data plan where you only pay for what you need. A Peplink eSIM Data Plan is an all-in-one solution offering access to not only SpeedFusion Connect but also cellular data. Click [here](#) to learn more.



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## Does the BR2 Micro employ Peplink's SpeedFusion technology or SpeedFusionVPN?

SpeedFusionVPN is included in all products. For the BR2 Micro, you can utilize 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 BR2 Micro



## How do I use the USB-C LAN?

The BR2 Micro features an integrated Ethernet to USB adapter based on the AX88179 chipset, enabling virtual Ethernet connectivity for any device through a USB connection. It can run on all operating systems options, including Linux, Windows and macOS.

Ensure the appropriate drivers are installed. You might find the driver [here](#).



## What size should the SIMs be?

The BR2 Micro uses Nano-SIMs (4FF).



# FAQ - BR2 Micro



## I see the unit has 2 SIM slots. Can they be used simultaneously?

The BR2 Micro is a dual cellular modem device with 2 SIM slots in total. You can load 2 SIMs and, based on your desired setting, both SIMs can be used concurrently.



## What SIM options are available?

The BR2 Micro supports a physical SIM, Peplink eSIM, BYO eSIM (2 profiles each modem), FusionSIM, and RemoteSIM (SIM Injector).



## Can the BR2 Micro use Band 71?

Yes. The BR2 Micro can use Band 71. Band 71 is a band frequency provided by T-Mobile. It operates at a 600MHz frequency that travels twice as far and works 4 times better in buildings than conventional LTE bands.



## What is FirstNet Ready? Does the BR2 Micro support FirstNet?

FirstNet is the only network where Public Safety can take advantage of the highest power class signaling available across the United States with FirstNet MegaRange, the High Power User Equipment solution exclusively available on Band 14.

The BR2 Micro is FirstNet Ready, providing additional coverage as the situation demands.

Click [here](#) to learn more about how Peplink technology works with FirstNet.



## Is there a way to protect vehicle batteries from drainage caused by the BR2 Micro?

Yes. The BR2 Micro is equipped with a power port featuring Ignition Sensing capabilities. Ignition Sensing allows the device to be connected to a vehicle's ignition system, enabling it to detect when the vehicle is turned on or off. This feature can be used to synchronize and automate the activation of electronic devices in vehicles, such as dash cams and radios.



# FAQ - BR2 Micro



## Why would I use SpeedFusion VPN in BR2 Micro?

SpeedFusion VPN is a built-in capability of the BR2 Micro, enabling users to create a VPN tunnel between Peplink devices. This tunnel can be configured as either unencrypted or encrypted with AES-256 encryption. For example, if you have a BR2 Micro at a remote location and a Peplink router at your main office, you can establish a connection between these locations, facilitating the transfer of resources from one place to another. It is possible to construct either a Layer 2 or Layer 3 tunnel for this purpose. At the same time, you could also enjoy the benefits of SpeedFusion features with the subscription of PrimeCare.



## What voltage is required?

The router is furnished with a 12V2A 4-pin power supply. However, you can supply the router with 10V-30V via a 4-pin Micro-Fit connector or via a USB-C port with at least 9V power source.



## Why can't I power up the BR2 Micro with my power bank?

To ensure the stable operation of the BR2 Micro, the power input requirement is at least 9V. Some power banks may only provide up to 5V of power supply. Please ensure that both the power supply and power cable can deliver the minimum power requirement.



## What is the power consumption of the BR2 Micro?

The nominal power consumption is 8W, while the maximum power consumption is 13W.



## How can I set up GPIO?

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



## What is a Captive Portal?

Captive Portal is a configuration under InControl 2. With captive portals, you can easily offer internet to your guests while controlling connection time and speed as well as data usage limits. By doing so, you can set up a social Wi-Fi hotspot to collect users' demographic data.



## Licenses and Accessories



### Can I manage the BR2 Micro remotely?

Yes, you can manage the BR2 Micro remotely with InControl. The BR2 Micro 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 BR2 Micro 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.



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

The BR2 Micro has a “built-in” capability for 2 PepVPNs/SpeedFusion Peers. 5 PepVPN/SpeedFusion Peers can be 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.



## What can I do if I need support?



### **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 BR2 Micro. 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.