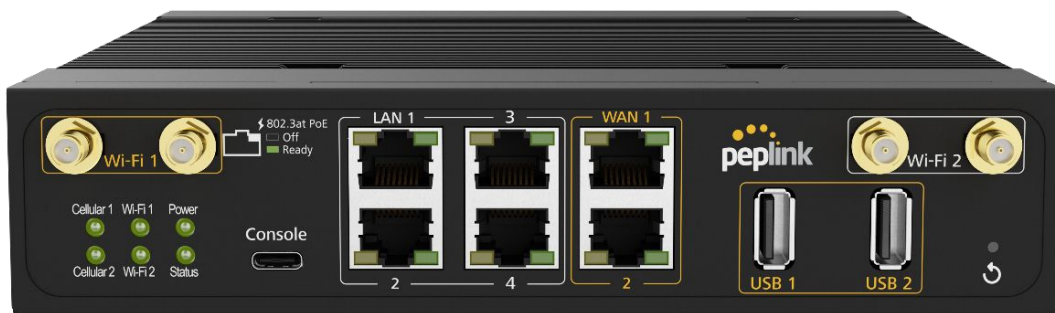


MBX Mini

Small and mighty 5G Ready router



FAQ

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Is the MBX Mini suitable for me?



What is the MBX Mini?

The MBX Mini is a 5G Ready router that comes in a small package. Equipped with FusionSIM, Dual-5G modem, triple power input, and the ability to expand to 4 connections with dual USB ports, the MBX Mini just gets better.



How fast is the MBX Mini?

The MBX Mini has a rated throughput of 2.5Gb/sec. It supports a 4Gb/sec downlink data rate and a 700Mb/sec uplink data rate. If the MBX Mini cannot receive a 5G network, it can receive LTE CAT-20 network with a 2Gb/sec downlink data rate and 150Mb/sec uplink data rate. You can view the complete spec sheet [here](#).



What certifications does the MBX Mini have?

The MBX Mini has the following certifications:

- FCC, CE, RoHS, IC, and E-Mark (Motor Vehicle)
- EN 61373: Shock and Vibration Resistance
- EN 50155: Railway Applications - Electronic Equipment used on Rolling Stock
- EN 61000: Electromagnetic Compatibility

The compact form and certifications allow you to deploy the MBX Mini in a wide variety of settings, including vehicles, vessels, and branch networks.

The MBX Mini also has US Carrier certifications from AT&T, Verizon and T-Mobile. US Carrier certifications are pending.



FAQ - MBX Mini



What is the best use case for the MBX Mini?

The answer isn't set in stone – transport, branch office, small business, industrial connectivity, etc. The list goes on and on. Together, we can work out a cost-effective solution with the best overall performance. Click [here](#) to get started.



How many ways can the MBX Mini connect to the Internet?

The MBX Mini has 2 x cellular modems, 2 x Ethernet WANs, 2 x USB WANs, and Wi-Fi-as-WAN.

What does the MBX Mini include?



What's in the box?

	MBX Mini
54V, 3.34A PSU (ACW-630)	1
Power Cord	1
Wi-Fi Dual-Band Antenna (ACW-341)	4
LTE/5G Antenna	0*
GPS Antenna (ACW-232)	1
QMA to SMA Adapter (for GPS)	1
3pin Terminal Block Connector (Ignition Sense)	1
4pin Terminal Block Connector (Ignition Sense)	1
Pair of Ear L-Mounts Kit (ACW-756)	1
Screw set of Ear L-Mounts Kit	1
Rubber Foot Pad Set	1

*Cellular antennas not included. To enhance the MBX Mini, we recommend Mobility and Maritime antennas.



FAQ - MBX Mini



Is this product warrantied?

Yes, the MBX Mini comes with a 1-year warranty which is extendable on a year-to-year basis. You can purchase an extension from our [Certified Partners](#) or directly from the Peplink store at the time of the sale or thereafter.

	EssentialCare	SmartCare
MBX Mini	[1-Year 2-Year]	[1-Year 3-Year]



What is the difference between EssentialCare and SmartCare?

EssentialCare is a subscription that bundles InControl, Warranty, and SpeedFusion Connect Protect usage into a single package. Click [here](#) to learn more about EssentialCare.

SmartCare is similar to EssentialCare. SmartCare also bundles InControl, Warranty, and SpeedFusion Connect Protect usage in a single package. Different from EssentialCare, SmartCare provides advanced hardware placement for Return Material Authorization (RMA).



What is SpeedFusion Connect Protect?

SpeedFusion Connect Protect is Peplink's global network of SpeedFusion endpoints. With an active CarePlan or SpeedFusion Connect Protect data plan, you can utilize SpeedFusion wherever you are, eliminating the need for any additional hardware.

Unsure of what you need? Check out this helpful [post](#).



Does the MBX Mini employ Peplink's SpeedFusion technology or SpeedFusion VPN?

All Peplink products can use SpeedFusion VPN. In addition, the MBX Mini supports SpeedFusion Hot Failover, WAN Smoothing, and Bandwidth Bonding, etc.



What is SpeedFusion technology?

Peplink's patented SpeedFusion technology is a powerful VPN tunnel equipped with various technologies, including Hot Failover, WAN Smoothing, Bandwidth Bonding, and much more. This functionality gives you the flexibility and tools required to achieve unbreakable connectivity in any vertical or scenario that you might find themselves in. Click [here](#) to learn more about SpeedFusion.



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

It's easy. Just look [here](#)!

5G FAQ



If you have questions about the MBX Mini like:

Q. Do Peplink's 5G devices support Sub-6 or mmWave?

Q. Are Peplink Mobility or Maritime antennas compatible with the MBX Mini?

Q. How does SpeedFusion work with the 5G network?

You can find all the answers [here](#).

Using the MBX Mini



What size should the SIMs be?

The MBX Mini uses Nano-SIM (4FF).



FAQ - MBX Mini



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

The MBX Mini has 2 5G modems. Each 5G modem has 2 SIM slots. You can load 2 SIMs and switch between them, but you can only use one at a time. However, you can use 5G modems simultaneously.



Why would I use SpeedFusion VPN?

SpeedFusion VPN is a capability built into the MBX Mini. It allows you to construct a VPN tunnel between Peplink devices. You can set up an unencrypted tunnel or utilize AES-256 encryption. For example, if you have an MBX Mini at the office and a Peplink Balance Series Router at another location, you can establish a connection between the 2 locations, allowing the flow of resources from 1 location to the other. You can construct either a Layer 2 or Layer 3 tunnel.



Does the MBX Mini provide GPS tracking?

The MBX Mini technology goes way beyond GPS tracking. It provides Dead Reckoning, an upgrade feature to standard GPS tracking.

Dead Reckoning will automatically estimate your current route and fill in the gaps in your course based on your speed, direction, distance, and last position. Dead Reckoning provides accuracy, stability, and secure GPS tracking, putting you back to control.



Is there a way to protect batteries from drainage by the MBX Mini?

Yes. The MBX Mini includes a power port with ignition sensing that enables unique features. Ignition Sensing is an electronic device's ability to connect to a vehicle's ignition for sensing whether it is on or off. This feature can synchronize and automate turning on electronic devices in vehicles such as dash-cams and radios.



FAQ - MBX Mini



What is the MBX Mini's maximum power consumption?

The maximum power consumption of the MBX Mini is 45W.



What voltage is required?

You can furnish the MBX Mini with 2 x 54V DC Connectors, 1 x 12-56V 4pin DC Terminal Block, and 1 x 3pin Ignition Sense PIN.



Does the MBX Mini support PoE Output features?

Yes. All 4 LAN ports in the MBX Mini support 802.3at PoE output. LAN ports with PoE output features can power your IP phones, cameras, and access points, which leads to better flexibility in your deployment. A 54V DC input is needed for all 4 LAN ports to have 802.3at PoE output features.



Does the MBX Mini provide a Captive Portal?

Yes. Captive Portal is a configuration under InControl 2. With Captive Portals, you can easily offer the Internet to your guests and easily control the connection time and speed while also instituting data usage limits. By doing so, you can set up a social Wi-Fi Hotspot to receive valuable demographic data from your users.

The MBX Mini & Public Safety



Can the MBX Mini use Band 71?

Yes. The MBX Mini can use Band 71. Band 71 is a band frequency provided by T-Mobile, operates at a 600MHz frequency that travels twice as far, and works 4 times better in buildings than conventional LTE bands. You can insert your T-Mobile SIM into any MBX Mini cellular slot to use Band 71.



The MBX Mini & FusionSIM



What is FusionSIM? Is FusionSIM ready?

Yes, FusionSIM is ready in the MBX Mini.

FusionSIM is Peplink's latest epoch-making technology. FusionSIM aims to enable Enterprise Wireless Networks by massively simplifying the logistical challenges of provisioning and managing multiple SIM cards in a network of numerous mobile routers.

By connecting your device to a SIM cloud, a SIM card from an available pool will extend to the router for establishing a local data connection.

Click [here](#) to learn more about FusionSIM.

Licenses and Accessories



Can the MBX Mini overcome spotty coverage issues?

Yes. The MBX Mini supports up to 4 SIM cards. In addition, the MBX Mini is compatible with the optional SIM Injector, which has room for another 8 SIMs. With up to 12 cellular providers to connect to, spotty coverage is a thing of the past.

Click [here](#) to learn more about how SIM Injector provides more SIM and range to your MBX Mini.



Is there a recommendation for antenna deployments?

For the MBX Mini, there are 8 x QMA Cellular Antenna Connectors, 1 x QMA GPS Antenna Connector, and 4 x RP-SMA Wi-Fi Antenna Connectors. Along with the MBX Mini, the package content includes 1 x GPS Antenna ([ACW-232](#)), 4 x Wi-Fi Dual-Band Antennas ([ACW-341](#)). As the MBX Mini does not include cellular antennas, we recommend choosing Peplink's Mobility or Maritime series antennas.



FAQ - MBX Mini

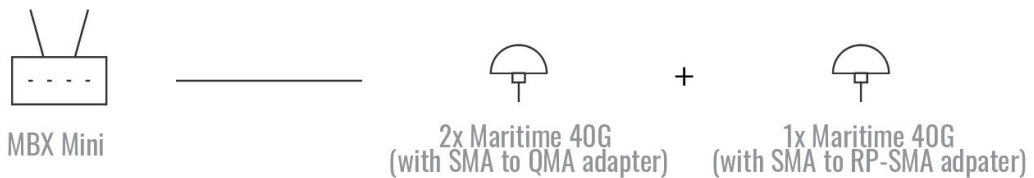
Either of these options will enhance the MBX Mini's performance. For example, you can deploy your MBX Mini with 2 Mobility 42G (QMA Connectors).

Antenna Guide



You may also deploy your MBX Mini with 3 Maritime 40G (2 installed with SMA-to-QMA adapters ([ACW-816](#)) for Cellular antenna connectors, 1 installed with SMA-to-RP-SMA adapters for Wi-Fi antenna connectors).

Antenna Guide



How can I subscribe to the InControl 2 service?

The MBX Mini comes with a 1-year subscription to EssentialCare, which includes InControl 2. Both an EssentialCare extension and a SmartCare subscription include the InControl 2 function.



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.



FAQ - MBX Mini



What if I need more than 2 SpeedFusion VPNs?

By default, the MBX Mini is capable of handling 2 SpeedFusion VPNs. However, you can expand this capability to [5 SpeedFusion VPN Peers](#) / [10 SpeedFusion VPN Peers](#) / [20 SpeedFusion VPN Peers](#).



It seems like there are a lot of options here. This could become very expensive!

We intend to allow users to acquire the router at a very reasonable cost and only add the options - if any - that are necessary to meet your requirements.

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 are proud to always provide support to you, our users, so always reach out to the place of purchase first.

For those who prefer self-service, Peplink has a very active [forum](#). Our regular forum users include Peplink Partners, the Peplink team, and many knowledgeable users. Generally, folks with questions get answers rather quickly.

In the unlikely event of a suspected hardware or firmware issue, you can directly enter a [support ticket](#) with Peplink. You will then receive attention from some of the best engineers! Peplink supports its owners like no other.



I can't access the Internet via the MBX Mini. So, what can I do?

Visit [this link](#) (troubleshooting section) for a basic troubleshooting guide. If you need further assistance, please reach out to us on our [forum](#), and the team will get you online.