

Bridge-in-a-Box - Getting Started

Bridge-in-a-Box is an outdoor wireless Ethernet bridge from Cambium Networks. It is useful for business and residential users to wirelessly extend their networks, by connecting from point A to point B in a simpler way.

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Bridge-in-a-Box variants

Cambium Networks offers the following variants:

- **Bridge-in-a-Box 60 GHz 1Gb**



- **Bridge-in-a-Box 60 GHz 2Gb**



Package contents

Each Bridge-in-a-Box variant comes with two wireless radio modules and Power over Ethernet (PoE) supplies.

You can use these modules to extend your network from one location where you have an Ethernet port to another location where you need one.

Features

The following table lists the features of each Bridge-in-a-Box variant.

Feature	Bridge-in-a-Box 1Gb	Bridge-in-a-Box 2Gb
Frequency	60 GHz	60 GHz
Data rate	Up to 1 Gbps	Up to 1.8 Gbps
Range	150 m or 500 ft	1 km or 0.6 mi
Wireless standard	802.11ay standard	802.11ay standard
Wired interface	1 x 100/1000 BaseT with PoE In	1 x 2.5 GbE PoE Input 1 x 2.5 GbE PoE 802.3at Output
Radio power	Up to 38 dBm EIRP	Up to 49 dBm EIRP
Antenna	22.5 dBi	34.5 dBi
Environmental	IP66/67	IP66/67

Feature	Bridge-in-a-Box 1Gb	Bridge-in-a-Box 2Gb
Operating temperature	-40°C to 60°C (-40°F to 140°F)	-40°C to 60°C (-40°F to 140°F)
Mounting range	25 mm to 70 mm (1 inch to 2.75 inches)	25 mm to 70 mm (1 inch to 2.75 inches) Note: Bracket provides fine adjustment of up to +/-20° in elevation.
Security	128-bit AES encryption	128-bit AES encryption

Benefits and use cases

The following table lists benefits and use cases of Bridge-in-a-Box.

Benefit	Use case
Extended Internet connectivity	Bridge-in-a-Box is used for connectivity at: <ul style="list-style-type: none"> • Machine shops, garages, or storage sheds • Docks or boat ramps • Remote or outlying buildings, remote parking lots, campus building, or building to building • Cabins, lodges, or construction sites • Events such as concerts, farmer markets, or athletic fields and events
Remote Wi-Fi hotspot connectivity	
Remote camera or CCTV video feed	

Hardware installation

The radio modules and PoE supplies (which come in with each Bridge-in-a-Box on purchasing) are easy to deploy as they come pre-configured and pre-paired to connect. You must unbox and directly install the units without any further configuration or other procedures such as node or link creation.

For more information on installing the radio units, refer to the Installation section in the *60 GHz cnWave™ User Guide*.

Configuration

By default, the Bridge-in-a-Box modules are pre-configured and pre-paired to connect easily. When the hardware installation is complete and has a proper Line of Sight (LoS), the link is established between the Controller node and the client nodes (CN) automatically.

You can log on to the device user interface (UI) using the default IP address (169.254.1.1 for the Controller node and 169.254.1.2 for the CN node). You can view the connected Controller and CN details on the **Topology** page of the device UI. In addition, you can make the required changes using the device UI.



Note

For information on additional configuration changes, refer to the *60 GHz cnWave™ User Guide*.

Support contacts

For more information and support, visit the following websites:

- [About Cambium Networks](#)
- [Support](#)
- [Warranty](#)
- [Global office addresses](#)