

Bridge-in-a-Box

Outdoor Wireless Ethernet Bridge

QUICK LOOK:

1Gb	2Gb	UHD	UHD PRO
Each Model is Pre-Paired for Easy Installation			
60 GHz	60 GHz	5 GHz	5 GHz
Up to 1 Gbps each direction	Up to 1.8 Gbps each direction	Up to 600 Mbps	Up to 600 Mbps
Enterprise/ Prosumer	Enterprise/ Industrial	Enterprise/ Prosumer	Industrial
Range: 150 m / 500 ft	Range: 500 m / 0.3 mi	Range: 1 mi / 1.6 km	Range: 5 mi / 8 km
IP66/67	IP66/67	IP55	IP67



Thousands of small businesses and residential users are using Bridge-in-a-Box to wirelessly extend their networks by simply connecting point A to point B. Each Bridge-in-a-Box comes with two wireless radio modules and Power over Ethernet (PoE) supplies that can be used to extend your network from wherever you have an Ethernet port to wherever you need one - from 50 feet to 5 miles away (20 meters to 8 kilometers). The modules are extremely easy to deploy as they come pre-configured and pre-paired to connect.

How are people using Bridge-in-a-Box?

- Extending Internet Connectivity
- Connecting Remote Wi-Fi Hotspots
- Remote Camera or CCTV Video Feeds

What are people connecting with Bridge-in-a-Box?

- Machine Shops / Garages / Storage Sheds
- Docks / Boat Ramps
- Any Remote or Outlying Buildings
- Remote Parking Lots
- Campus Buildings
- Building to Building
- Cabins and Lodges
- Construction Sites
- Temporary Events such as Concerts, Farmers Markets, etc.
- Athletic Fields and Events

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



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



**Bridge-in-a-Box
5 GHz UHD**



**Bridge-in-a-Box
5 GHz UHD PRO**

Features

	Bridge-in-a-Box 1Gb	Bridge-in-a-Box 2Gb	Bridge-in-a-Box UHD	Bridge-in-a-Box UHD PRO
Wireless Standard	802.11ay standard	802.11ay standard	ePTP proprietary protocol. Supports lower latencies, longer ranges and higher reliability.	
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	Gigabit/Fast Ethernet (100/1000 BaseT)	Gigabit/Fast Ethernet (100/1000 BaseT)
Functions	N/A	N/A	Traffic Prioritization using QoS (Quality of Service), WEP security	Traffic Prioritization using QoS (Quality of Service), WEP security
Radio Power	Up to 38 dBm EIRP	Up to 49 dBm EIRP	Up to 29 dBm EIRP	Up to 28 dBm EIRP
Antenna	22.5 dBi	34.5 dBi	13 dBi	19 dBi
Environmental	IP66/67	IP66/67	IP55	IP67
Operating Temperature	-40°C to 60°C (-40°F to 140°F)	-40°C to 60°C (-40°F to 140°F)	-30°C to 60°C (-22°F to 140°F)	-30°C to 60°C (-22°F to 140°F)
Mounting	25 mm to 70 mm (1 in to 2.75 in)	25 mm to 70 mm (1 in to 2.75 in) Bracket provides fine adjustment of up to +/-20° in elevation	Included Pole Mount supports 2.5 cm to 4.1 cm (1.0 in to 1.6 in)	Included Pole Mount supports 2.5 cm to 4.1 cm (1.0 in to 1.6 in)
Security	128-bit AES encryption	128-bit AES encryption	128-bit AES encryption, WEP, Password-protected HTTPS	128-bit AES encryption, WEP, Password-protected HTTPS

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Specifications				
	Bridge-in-a-Box 1Gb	Bridge-in-a-Box 2Gb	Bridge-in-a-Box UHD	Bridge-in-a-Box UHD PRO
Frequency Range	57–66 GHz	57–66 GHz	4910–5970 MHz (exact frequencies as allowed by local regulations)	4910–5970 MHz (exact frequencies as allowed by local regulations)
Channel Spacing	Configurable in 5 MHz increments	Configurable in 5 MHz increments	Configurable in 5 MHz increments	Configurable in 5 MHz increments
Channel Bandwidth Options	2.16 GHz, 4.32 GHz	2.16 GHz, 4.32 GHz	20 40 80 MHz	5 10 20 40 80 MHz
Ethernet 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	10/100/1000 BaseT, Compatible with Cambium PoE & Standard PoE pinouts	10/100/1000 BaseT, Compatible with Cambium PoE & Standard PoE pinouts
Protocols	IPv4, IPv6, Layer2 Bridge, Layer3 IPv6 Routing, Open/R mesh	IPv4, IPv6, Layer2 Bridge, Layer3 IPv6 Routing, Open/R mesh	IPv4/IPv6 (Dual Stack), UDP, TCP, ICMP, SNMPv2c, NTP, STP, IGMP, SSH	IPv4/IPv6 (Dual Stack), UDP, TCP, ICMP, SNMPv2c, NTP, STP, IGMP, SS
Network Management	cnMaestro, HTTP, HTTPS, SNMP v2c & v3	cnMaestro, HTTP, HTTPS, SNMP v2c & v3	IPv4/IPv6, HTTPs, SNMPv2c, SSH, Cambium Networks cnMaestro™	IPv4/IPv6, HTTPs, SNMPv2c, SSH, Cambium Networks cnMaestro™
VLAN	802.1ad (QinQ), 802.1Q with 802.1p priority	802.1ad (QinQ), 802.1Q with 802.1p priority	802.1Q with 802.1p priority	802.1Q with 802.1p priority
ARQ	Yes	Yes	Yes	Yes
Modulation Levels	MCS-0 (BPSK) to MCS-10 (16-QAM)	MCS-0 (BPSK) to MCS-12 (16-QAM)	MCS-0 (BPSK) to MCS-9 (256 QAM-5/6)	MCS-0 (BPSK) to MCS-9 (256 QAM-5/6)
Surge Suppression	2KV	2KV	2KV	2KV
Weight	0.46 kg (1.01 lbs)	2.7 kg (6 lbs)	0.48 kg (1.05 lbs) (including integrated mounting bracket)	1.45 kg (3.2 lbs) (including mounting bracket)
Wind Survival	200 km/h (124 mi/h)	200 km/h (124 mi/h)	180 km/h (112 mph)	180 km/h (112 mph)
Dimensions	169 x 100 x 54 mm (6.65 x 3.94 x 2.13 in)	241 x 167 x 167 mm (9.5 x 6.6 x 6.6 inches)	13.0 x 20.3 x 5.40 cm (5.1 x 8.0 x 2.1 in)	27.8 x 27.8 x 4.5 cm (10.9 x 10.9 x 1.8 in) without mounting bracket
Power Consumption	10W	18W (48W when using PoE output port)	12W	12W (Up to 15W in extreme cold temperatures when heater is activated)
FCCID	QWP-60V1000	QWP-60V2000	Z8H89FT0048	Z8H89FT0048
Industry Canada Cert	109AO-60V1000	109AO-60V2000	109W-0048	109W-0048
CE	57–66 GHz: EN 302 567 V2.1.1 57–71 GHz: EN 303 722 V0.0.4	57–66 GHz: EN 302 567 V2.1.1 57–71 GHz: EN 303 722 V1.2.1	5.4 GHz: EN 301 893 V2.1.1 5.8 GHz: EN 302 502 V2.1.1	5.4 GHz: EN 301 893 V2.1.1 5.8 GHz: EN 302 502 V2.1.1

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Bridge-in-a-Box 1Gb Ordering Information

C600510C001A	60 GHz Bridge-in-a-Box 1Gb with US cord
C600510C003A	60 GHz Bridge-in-a-Box 1Gb with EU cord
C600510C004A	60 GHz Bridge-in-a-Box 1Gb with UK Cord
C600510C008A	60 GHz Bridge-in-a-Box 1Gb with ANZ Cord
C600510C009A	60 GHz Bridge-in-a-Box 1Gb with Brazil Cord
C600510C010A	60 GHz Bridge-in-a-Box 1Gb with Argentina Cord
C600510C011A	60 GHz Bridge-in-a-Box 1Gb with China Cord
C600510C012A	60 GHz Bridge-in-a-Box 1Gb with South Africa Cord
C600510C013A	60 GHz Bridge-in-a-Box 1Gb with India Cord
C600510C014A	60 GHz Bridge-in-a-Box 1Gb with no Cord
C600510C016A	60 GHz Bridge-in-a-Box 1Gb with Israel cord - Israel Only

Bridge-in-a-Box 2Gb Ordering Information

C600510C020A	60 GHz Bridge-in-a-Box 2Gb with US cord
C600510C026A	60 GHz Bridge-in-a-Box 2Gb with Israel Cord
C600510C027A	60 GHz Bridge-in-a-Box 2Gb with South Africa Cord
C600510C028A	60 GHz Bridge-in-a-Box 2Gb with India Cord
C600510C029A	60 GHz Bridge-in-a-Box 2Gb with no Cord
C600510C030A	60 GHz Bridge-in-a-Box 2Gb no power cord
C600510C031A	60 GHz Bridge-in-a-Box 2Gb with EU cord
C600510C032A	60 GHz Bridge-in-a-Box 2Gb with UK Cord
C600510C033A	60 GHz Bridge-in-a-Box 2Gb with ANZ Cord
C600510C034A	60 GHz Bridge-in-a-Box 2Gb with Brazil Cord
C600510C035A	60 GHz Bridge-in-a-Box 2Gb with Argentina Cord

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Bridge-in-a-Box UHD Ordering Information

C058900B701A	Bridge-in-a-Box UHD 5 GHz (FCC) (US cord)
C050900B701A	Bridge-in-a-Box UHD 5 GHz (IC) (Canada/US cord)
C050900B702A	Bridge-in-a-Box UHD 5 GHz (EU) (EU cord)
C050900B703A	Bridge-in-a-Box UHD 5 GHz (EU) (UK cord)
C050900B704A	Bridge-in-a-Box UHD 5 GHz (ROW) (no cord)
C050900B705A	Bridge-in-a-Box UHD 5 GHz (ROW) (US cord)
C050900B706A	Bridge-in-a-Box UHD 5 GHz (ROW) (EU cord)
C050900B707A	Bridge-in-a-Box UHD 5 GHz (ROW) (UK cord)
C050900B708A	Bridge-in-a-Box UHD 5 GHz (ROW) (India cord)
C050900B709A	Bridge-in-a-Box UHD 5 GHz (India) (India cord)
C050900B710A	Bridge-in-a-Box UHD 5 GHz (ROW) (China cord)
C050900B711A	Bridge-in-a-Box UHD 5 GHz (ROW) (Brazil cord)
C050900B712A	Bridge-in-a-Box UHD 5 GHz (ROW) (Argentina cord)
C050900B713A	Bridge-in-a-Box UHD 5 GHz (ROW) (ANZ cord)
C050900B714A	Bridge-in-a-Box UHD 5 GHz (ROW) (South Africa cord)

Bridge-in-a-Box UHD PRO Ordering Information

C058900B901A	Bridge-in-a-Box UHD PRO 5 GHz (FCC) (US cord)
C050900B901A	Bridge-in-a-Box UHD PRO 5 GHz (IC) (Canada/US cord)
C050900B902A	Bridge-in-a-Box UHD PRO 5 GHz (EU) (EU cord)
C050900B903A	Bridge-in-a-Box UHD PRO 5 GHz (EU) (UK cord)
C050900B904A	Bridge-in-a-Box UHD PRO 5 GHz (ROW) (no cord)
C050900B905A	Bridge-in-a-Box UHD PRO 5 GHz (ROW) (US cord)
C050900B906A	Bridge-in-a-Box UHD PRO 5 GHz (ROW) (EU cord)
C050900B907A	Bridge-in-a-Box UHD PRO 5 GHz (ROW) (UK cord)
C050900B908A	Bridge-in-a-Box UHD PRO 5 GHz (ROW) (India cord)
C050900B909A	Bridge-in-a-Box UHD PRO 5 GHz (India) (India cord)
C050900B910A	Bridge-in-a-Box UHD PRO 5 GHz (ROW) (China cord)
C050900B911A	Bridge-in-a-Box UHD PRO 5 GHz (ROW) (Brazil cord)
C050900B912A	Bridge-in-a-Box UHD PRO 5 GHz (ROW) (Argentina cord)
C050900B913A	Bridge-in-a-Box UHD PRO 5 GHz (ROW) (ANZ cord)
C050900B914A	Bridge-in-a-Box UHD PRO 5 GHz (ROW) (South Africa cord)

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About Cambium Networks

Cambium Networks empowers millions of people with wireless connectivity worldwide. Its wireless portfolio is used by commercial and government network operators as well as broadband service providers to connect people, places and things. With a single network architecture spanning fixed wireless and Wi-Fi, Cambium Networks enables operators to achieve maximum performance with minimal spectrum. End-to-end cloud management transforms networks into dynamic environments that evolve to meet changing needs with minimal physical human intervention. Cambium Networks empowers a growing ecosystem of partners who design and deliver gigabit wireless solutions that just work.

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