Bridge-in-a-Box

Outdoor Wireless Ethernet Bridge

Bridge-in-a-Box Quick Look

- Pre-paired plug-n-play link for easy installation
- Four models that each include 2 wireless radio modules and power-over-Ethernet (PoE) supplies
- Speed ranges from 600 Mbps (UHD Pro) to 1.8 Gbps (2Gb) in unlicensed spectrum
- Range from 150 m (1Gb) to 8 km (UHD Pro and 5 GHz 1Gb)



High-Speed Connectivity Made Easy

Thousands of small businesses and residential customers use Bridge-in-a-Box to wirelessly extend their networks by simply connecting point A to point B. Each Bridge-in-a-Box comes with 2 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 easy to deploy as they are pre-configured and pre-paired to connect.

1Gb	2Gb	UHD PRO	5 GHz 1Gb
60 GHz	60 GHz	5 GHz	5 GHz
Up to 1 Gbps	Up to 1.8 Gbps	Up to 600 Mbps	Up to 1Gbps
Enterprise/ Prosumer	Enterprise/ Industrial	Industrial	Enterprise/ Industrial
Range: 150 m / 500 ft	Range: 1 km / 0.6 mi	Range: 8 km / 5 mi	Range: 8 km / 5 mi
IP66/67	IP66/67	IP67	IP 55

Each model is pre-paired for easy installation.

How Do People Use Bridge-in-a-Box?

- Extending internet connectivity
- Connecting remote Wi-Fi hotspots
- Remote camera or CCTV video needs

What Do People Connect?

- Machine shops, garages, storage sheds
- Docks, boat ramps
- Any remote or outlying buildings
- Remote parking lots
- Campus buildings
- Cabins, lodges
- Construction sites
- Concerts, farmers markets, festivals
- Athletic fields, events

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Bridge-in-a-Box



Features

	Bridge-in-a-Box 1Gb	Bridge-in-a-Box 2 Gb	Bridge-in-a-Box UHD Pro	5 GHz Bridge-in-a-Box 1Gb
Wireless Standard	802.11ay standard	802.11ay standard	ePTP proprietary protocol; supports lower latencies, longer ranges, higher reliability	ePTP proprietary protocol; supports lower latencies, longer ranges, 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 28 dBm EIRP	Up to 28 dBm EIRP
Antenna	22.5 dBi	34.5 dBi	19 dBi	18 dBi
Environmental	IP66/67	IP66/67	IP67	IP55
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 55°C (32°F to 104°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, supporting 2.5 cm to 4.1 cm (1.0 in to 1.6 in)	Included pole mount, supporting 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 2 Gb	Bridge-in-a-Box UHD Pro	5 GHz Bridge-in-a-Box 1Gb
Frequency Range	57–66 GHz	57–66 GHz	4910–5970 MHz*	5150–5920 MHz*
Channel Spacing	N/A	N/A	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	5 | 10 | 20 | 40 | 80 MHz	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 Distributed Networking	IPv4, IPv6, Layer2 Bridge, Layer3 IPv6 Routing, Open/R Distributed Networking	IPv4/IPv6 (Dual Stack), UDP, TCP, ICMP, SNMPv2c, NTP, STP, IGMP, SS	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-3/4)	MCS-0 (BPSK) to MCS-12 (16-QAM-3/4)	MCS-0 (BPSK) to MCS-9 (256 QAM-5/6)	MCS-0 (BPSK) to MCS-11 (1024 QAM-5/6)
Surge Suppression	2KV	2KV	2KV	2KV
Weight	0.46 kg (1.01 lb)	1.9 kg (4.2 lb) with mounting bracket	1.45 kg (3.2 lb) with mounting bracket	2.76 kg (6.1 lb) with mounting bracket
Wind Survival	200 km/h (124 mph)	200 km/h (124 mph)	180 km/h (112 mph)	180 km/h (112 mph)
Dimensions H x W x D	169 x 100 x 54 mm (6.65 x 3.94 x 2.13 in)	With integrated bracket: 249 x 166 x 220 mm (9.8 x 6.6 x 8.6 in) Without integrated bracket: 249 x 166 x 166 mm (9.8 x 6.5 x 6.6 in)	Without mounting bracket: 278 x 278 x 45 mm (10.9 x 10.9 x 1.8 in)	Without mounting bracket: 180 x 210 x 39 mm (7 x 8.2 x 1.5 in)
Power Consumption	10W	18W (48W when using PoE output port)	12W (Up to 15W in extreme cold temperatures when heater is activated)	13W
FCCID	QWP-60V1000	QWP-60V2000	Z8H89FT0048	Z8H89FT0088
Industry Canada Cert	109AO-60V1000	109AO-60V2000	109W-0048	109W-0088
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

*Exact frequencies as allowed by local regulations

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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	
C600510C020B	60 GHz Bridge-in-a-Box 2Gb with US cord
C600510C026B	60 GHz Bridge-in-a-Box 2Gb with Israel cord - Israel Only
C600510C027B	60 GHz Bridge-in-a-Box 2Gb with South Africa cord
C600510C028B	60 GHz Bridge-in-a-Box 2Gb with India cord
C600510C029B	60 GHz Bridge-in-a-Box 2Gb with no cord
C600510C030B	60GHz cnWave V2000 Client Node no power supply, no cord
C600510C031B	60 GHz Bridge-in-a-Box 2Gb with EU cord
C600510C032B	60 GHz Bridge-in-a-Box 2Gb with UK cord
C600510C033B	60 GHz Bridge-in-a-Box 2Gb with ANZ cord
C600510C034B	60 GHz Bridge-in-a-Box 2Gb with Brazil cord
C600510C035B	60 GHz Bridge-in-a-Box 2Gb with Argentina 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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5 GHz Bridge-in-a-Box 1 Gbps Ordering Information	
C050940B233A	Bridge in a Box 1Gb 5 GHz (EU) (EU cord)
C050940B333A	Bridge in a Box 1Gb GHz (EU) (UK cord)
C050940B132A	Bridge in a Box 1Gb 5 GHz (FCC) (US cord)
C050940B134A	Bridge in a Box 1Gb 5 GHz (IC) (Canada/US cord)
C050940B435A	Bridge in a Box 1Gb 5 GHz (India) (India cord)
C050940B831A	Bridge in a Box 1Gb 5 GHz (ROW) (ANZ cord)
C050940B731A	Bridge in a Box 1Gb 5 GHz (ROW) (Argentina cord)
C050940B631A	Bridge in a Box 1Gb 5 GHz (ROW) (Brazil cord)
C050940B531A	Bridge in a Box 1Gb 5 GHz (ROW) (China cord)
C050940B231A	Bridge in a Box 1Gb 5 GHz (ROW) (EU cord)
C050940B431A	Bridge in a Box 1Gb 5 GHz (ROW) (India cord)
C050940B031A	Bridge in a Box 1Gb 5 GHz (ROW) (no cord)
C050940B931A	Bridge in a Box 1Gb 5 GHz (ROW) (South Africa cord)
C050940B331A	Bridge in a Box 1Gb 5 GHz (ROW) (UK cord)
C050940B131A	Bridge in a Box 1Gb 5 GHz (ROW) (US cord)
C050940B236A	Bridge in a Box 1Gb 5 GHz (Indonesia) (EU cord)

ABOUT CAMBIUM NETWORKS

Cambium Networks enables service providers, enterprises, industrial organizations, and governments to deliver exceptional digital experiences and device connectivity with compelling economics. Our ONE Network platform simplifies management of Cambium Networks' wired and wireless broadband and network edge technologies. Our customers can focus more resources on managing their business rather than the network. We make connectivity that just works.

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