

# 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	Up to 1.8 Gbps	Up to 600 Mbps	Up to 600 Mbps
Enterprise/ Prosumer	Enterprise/ Industrial	Enterprise/ Prosumer	Industrial
Range: 150 m / 500 ft	Range: 1 km / 0.6 mi	Range: 1.6 km / 1 mi	Range: 8 km / 5 mi
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

## Bridge-in-a-Box Outdoor Wireless Ethernet Bridge



**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

	<b>Bridge-in-a-Box 1Gb</b>	<b>Bridge-in-a-Box 2Gb</b>	<b>Bridge-in-a-Box UHD</b>	<b>Bridge-in-a-Box UHD PRO</b>
<b>Wireless Standard</b>	802.11ay standard	802.11ay standard	ePTP proprietary protocol. Supports lower latencies, longer ranges and higher reliability.	
<b>Wired Interface</b>	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)
<b>Functions</b>	N/A	N/A	Traffic Prioritization using QoS (Quality of Service), WEP security	Traffic Prioritization using QoS (Quality of Service), WEP security
<b>Radio Power</b>	Up to 38 dBm EIRP	Up to 49 dBm EIRP	Up to 29 dBm EIRP	Up to 28 dBm EIRP
<b>Antenna</b>	22.5 dBi	34.5 dBi	13 dBi	19 dBi
<b>Environmental</b>	IP66/67	IP66/67	IP55	IP67
<b>Operating Temperature</b>	-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)
<b>Mounting</b>	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)
<b>Security</b>	128-bit AES encryption	128-bit AES encryption	128-bit AES encryption, WEP, Password-protected HTTPS	128-bit AES encryption, WEP, Password-protected HTTPS

## Bridge-in-a-Box Outdoor Wireless Ethernet Bridge

Specifications				
	Bridge-in-a-Box 1Gb	Bridge-in-a-Box 2Gb	Bridge-in-a-Box UHD	Bridge-in-a-Box UHD PRO
<b>Frequency Range</b>	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)
<b>Channel Spacing</b>	N/A	N/A	Configurable in 5 MHz increments	Configurable in 5 MHz increments
<b>Channel Bandwidth Options</b>	2.16 GHz, 4.32 GHz	2.16 GHz, 4.32 GHz	20   40   80 MHz	5   10   20   40   80 MHz
<b>Ethernet Interface</b>	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
<b>Protocols</b>	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
<b>Network Management</b>	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™
<b>VLAN</b>	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
<b>ARQ</b>	Yes	Yes	Yes	Yes
<b>Modulation Levels</b>	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-9 (256 QAM-5/6)
<b>Surge Suppression</b>	2KV	2KV	2KV	2KV
<b>Weight</b>	0.46 kg (1.01 lbs)	1.9 kg (4.2 lbs) with bracket	0.48 kg (1.05 lbs) including integrated mounting bracket	1.45 kg (3.2 lbs) including mounting bracket
<b>Wind Survival</b>	200 km/h (124 mph)	200 km/h (124 mph)	180 km/h (112 mph)	180 km/h (112 mph)
<b>Dimensions H x W x D</b>	169 x 100 x 54 mm (6.65 x 3.94 x 2.13 in)	<b>With integrated bracket:</b> 249 x 166 x 220 mm (9.8 x 6.6 x 8.6 inches)  <b>Without integrated bracket:</b> 249 x 166 x 166 mm (9.8 x 6.5 x 6.6 inches)	130 x 203 x 540 mm (5.1 x 8.0 x 2.1 in)	<b>Without mounting bracket:</b> 278 x 278 x 45 mm (10.9 x 10.9 x 1.8 in)
<b>Power Consumption</b>	10W	18W (48W when using PoE output port)	12W	12W (Up to 15W in extreme cold temperatures when heater is activated)
<b>FCCID</b>	QWP-60V1000	QWP-60V2000	Z8H89FT0048	Z8H89FT0048
<b>Industry Canada Cert</b>	109AO-60V1000	109AO-60V2000	109W-0048	109W-0048
<b>CE</b>	<b>57–66 GHz:</b> EN 302 567 V2.11  <b>57–71 GHz:</b> EN 303 722 V0.0.4	<b>57–66 GHz:</b> EN 302 567 V2.11  <b>57–71 GHz:</b> EN 303 722 V1.2.1	<b>5.4 GHz:</b> EN 301 893 V2.11 <b>5.8 GHz:</b> EN 302 502 V2.11	<b>5.4 GHz:</b> EN 301 893 V2.11 <b>5.8 GHz:</b> EN 302 502 V2.11

## Bridge-in-a-Box Outdoor Wireless Ethernet Bridge

### Bridge-in-a-Box 1Gb Ordering Information

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

### Bridge-in-a-Box 2Gb Ordering Information

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

## Bridge-in-a-Box Outdoor Wireless Ethernet Bridge

### Bridge-in-a-Box UHD Ordering Information

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

### Bridge-in-a-Box UHD PRO Ordering Information

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

[cambiumnetworks.com](http://cambiumnetworks.com)