

~~ePMP~~ Bridge-in-a-Box

Outdoor Wireless Ethernet Bridge

QUICK LOOK:

Bridge-in-a-Box	Bridge-in-a-Box UHD	Bridge-in-a-Box UHD PRO
802.11n	802.11ac	802.11ac
Up to 200 Mbps	Up to 600 Mbps	Up to 600 Mbps
All are Pre-Paired for Easy Installation		
Enterprise	Enterprise/Prosumer	Industrial
2 mi / 3.2 km Range	1 mi / 1.6 km Range	5 mi / 8 km Range
IP55	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 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

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

Features

	Bridge-in-a-Box	Bridge-in-a-Box UHD	Bridge-in-a-Box UHD PRO
Wireless Standard	ePTP proprietary protocol. Supports lower latencies, longer ranges and higher reliability.		
Wired Interface	Gigabit/Fast Ethernet (100/1000 BaseT)	Gigabit/Fast Ethernet (100/1000 BaseT)	Gigabit/Fast Ethernet (100/1000 BaseT)
Functions	Traffic Prioritization using QoS (Quality of Service), WEP security	Traffic Prioritization using QoS (Quality of Service), WEP security	Traffic Prioritization using QoS (Quality of Service), WEP security
Radio Transmit Power	Up to 30 dBm	Up to 29 dBm	Up to 28 dBm
Antenna	16 dBi	13 dBi	19 dBi
Environmental	IP55	IP55	IP67
Operating Temperature	-30°C to 60°C (-22°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	Flexible Pole Mount supports 2.5 cm to 7.5 cm (1.0 in to 3.0 in)	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, WEP, Password-protected HTTPS	128-bit AES encryption, WEP, Password-protected HTTPS	128-bit AES encryption, WEP, Password-protected HTTPS



Bridge-in-a-Box



Bridge-in-a-Box UHD



Bridge-in-a-Box UHD PRO

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Specifications

	Bridge-in-a-Box	Bridge-in-a-Box UHD	Bridge-in-a-Box UHD PRO
Frequency Range	5 GHz: 4910 – 5970 MHz (exact frequencies as allowed by local regulations)	5 GHz: 4910 – 5970 MHz (exact frequencies as allowed by local regulations)	5 GHz: 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
Channel Bandwidth Options	5+10 20 40 MHz	20 40 80 MHz	5+10 20 40 80 MHz
Technology			
Ethernet Interface	10/100/1000 BaseT, Compatible with Cambium PoE pinouts (V+ = 7 & 8, Return = 4 & 5) and Standard PoE pinouts (V+ = 4 & 5, Return = 7 & 8)	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 (Dual Stack), UDP, TCP, ICMP, SNMPv2c, NTP, STP, IGMP, SSH	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	IPv4/IPv6, HTTPs, SNMPv2c, SSH, Cambium Networks cnMaestro™	IPv4/IPv6, HTTPs, SNMPv2c, SSH, Cambium Networks cnMaestro™	IPv4/IPv6, HTTPs, SNMPv2c, SSH, Cambium Networks cnMaestro™
VLAN	802.1Q with 802.1p priority	802.1Q with 802.1p priority	802.1Q with 802.1p priority
ARQ	Yes	Yes	Yes
Nominal Receive Sensitivity (w/FEC)			
@ 20 MHz Channel	MCS0 = -93 dBm to MCS15 = -72 dBm (per branch)	MCS0 = -89 dBm to MCS8 (256 QAM-3/4) = -68 dBm (per chain)	MCS0 = -89 dBm to MCS8 (256 QAM-3/4) = -68 dBm (per chain)
@ 40 MHz Channel	MCS0 = -90 dBm to MCS15 = -69 dBm (per branch)	MCS0 = -87 dBm to MCS9 (256 QAM-5/6) = -66 dBm (per chain)	MCS0 = -87 dBm to MCS9 (256 QAM-5/6) = -66 dBm (per chain)
@ 80 MHz Channel	n/a	MCS0 = -84 dBm to MCS9 (256 QAM-5/6) = -61 dBm (per chain)	MCS0 = -84 dBm to MCS9 (256 QAM-5/6) = -61 dBm (per chain)
Modulation Levels	MCS0 (BPSK) to MCS15 (64 QAM 5/6)	MCS0 (BPSK) to MCS9 (256 QAM-5/6)	MCS0 (BPSK) to MCS9 (256 QAM-5/6)
Transmit Power Range	-17 to +30 dBm (combined, to regional EIRP limit) (1 dB interval)	0 to +28 dBm (combined up to the regional EIRP limit) (1 dB interval)	0 to +28 dBm (combined up to the regional EIRP limit) (1 dB interval)
Surge Suppression	2 Joule Integrated	1 Joule Integrated	1 Joule Integrated
Weight	0.50 kg (1.1 lb) (including mounting bracket)	0.48 kg (1.05 lbs) (including integrated mounting bracket)	1.45 kg (3.2 lbs) (including mounting bracket)
Wind Survival	145 km/h (90 mph) with antenna	180 km/h (112 mph)	180 km/h (112 mph)
Dimensions	12.4 x 25.1 x 11.9 cm (4.9 x 9.9 x 4.7 in) with mounting bracket attached	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	10 W Maximum, 5 W Typical	12 W	12 W (Up to 15 W in extreme cold temperatures when heater is activated)
FCCID	Z8H89FT0015	Z8H89FT0048	Z8H89FT0048
Industry Canada Cert	109W-0015	109W-0048	109W-0048
CE	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	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 Ordering Information

C050900B071A ~~ePMP~~ Bridge-in-a-Box – 5 GHz (RoW) (No Cord)

C050900B073A ~~ePMP~~ Bridge-in-a-Box – 5 GHz (EU)

C050900B171A ~~ePMP~~ Bridge-in-a-Box – 5 GHz (RoW) (US Cord)

C050900B172A ePMP Bridge-in-a-Box - 5 GHz (IC)

C050900B271A ePMP Bridge-in-a-Box – 5 GHz (RoW) (EU Cord)

C058900B072A ePMP Bridge-in-a-Box – 5 GHz (FCC)

Bridge-in-a-Box UHD Ordering Information

C058900B701A ePMP Bridge-in-a-Box UHD 5 GHz (FCC) (US cord)

C050900B701A ePMP Bridge-in-a-Box UHD 5 GHz (IC) (Canada/US cord)

C050900B702A ePMP Bridge-in-a-Box UHD 5 GHz (EU) (EU cord)

C050900B703A ePMP Bridge-in-a-Box UHD 5 GHz (EU) (UK cord)

C050900B704A ePMP Bridge-in-a-Box UHD 5 GHz (ROW) (no cord)

C050900B705A ePMP Bridge-in-a-Box UHD 5 GHz (ROW) (US cord)

C050900B706A ePMP Bridge-in-a-Box UHD 5 GHz (ROW) (EU cord)

C050900B707A ePMP Bridge-in-a-Box UHD 5 GHz (ROW) (UK cord)

C050900B708A ePMP Bridge-in-a-Box UHD 5 GHz (ROW) (India cord)

C050900B709A ePMP Bridge-in-a-Box UHD 5 GHz (India) (India cord)

C050900B710A ePMP Bridge-in-a-Box UHD 5 GHz (ROW) (China cord)

C050900B711A ePMP Bridge-in-a-Box UHD 5 GHz (ROW) (Brazil cord)

C050900B712A ePMP Bridge-in-a-Box UHD 5 GHz (ROW) (Argentina cord)

C050900B713A ePMP Bridge-in-a-Box UHD 5 GHz (ROW) (ANZ cord)

C050900B714A ePMP Bridge-in-a-Box UHD 5 GHz (ROW) (South Africa cord)

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Bridge-in-a-Box UHD PRO Ordering Information

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

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.