

# 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)



| 1Gb                      | 2Gb                       | UHD PRO               | 5 GHz ePMP 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/<br>Prosumer  | Enterprise/<br>Industrial | Industrial            | Enterprise/<br>Industrial |
| Range:<br>150 m / 500 ft | Range:<br>1 km / 0.6 mi   | Range:<br>8 km / 5 mi | Range:<br>8 km / 5 mi     |
| IP66/67                  | IP66/67                   | IP67                  | IP 55                     |

Each model is pre-paired for easy installation.

### High-Speed Connectivity Made Easy

Thousands of small businesses and residential customers 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 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 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 needs

### What Are People Connecting?

- Machine shops, garage, 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

## Bridge-in-a-Box



| Features              |                                     |                                                                                                          |                                                                                        |                                                                                        |
|-----------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
|                       | Bridge-in-a-Box 1Gb                 | Bridge-in-a-Box 2 Gb                                                                                     | Bridge-in-a-Box UHD Pro                                                                | 5 GHz ePMP Bridge-in-a-Box 1 Gbps                                                      |
| 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<br>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<br>(-40°F to 140°F)   | -40°C to 60°C<br>(-40°F to 140°F)                                                                        | -30°C to 60°C<br>(-22°F to 140°F)                                                      | 0°C to 40°C<br>(32°F to 104°F)                                                         |
| Mounting              | 25 mm to 70 mm<br>(1 in to 2.75 in) | 25 mm to 70 mm<br>(1 in to 2.75 in)<br><br>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                                  |

## Bridge-in-a-Box

| Specifications            |                                                                               |                                                                                                                                                         |                                                                          |                                                                       |
|---------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------|
|                           | Bridge-in-a-Box 1Gb                                                           | Bridge-in-a-Box 2 Gb                                                                                                                                    | Bridge-in-a-Box UHD Pro                                                  | 5 GHz ePMP Bridge-in-a-Box 1 Gbps                                     |
| 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<br>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<br>(6.65 x 3.94 x 2.13 in)                                  | With integrated bracket:<br>249 x 166 x 220 mm<br>(9.8 x 6.6 x 8.6 in)<br><br>Without integrated bracket:<br>249 x 166 x 166 mm<br>(9.8 x 6.5 x 6.6 in) | Without mounting bracket:<br>278 x 278 x 45 mm<br>(10.9 x 10.9 x 1.8 in) | Without mounting bracket:<br>180 x 210 x 39 mm<br>(7 x 8.2 x 1.5 in)  |
| Power Consumption         | 10W                                                                           | 18W<br>(48W when using PoE output port)                                                                                                                 | 12W<br>(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:<br>EN 302 567 V2.1.1<br>57–71 GHz:<br>EN 303 722 V0.0.4            | 57–66 GHz:<br>EN 302 567 V2.1.1<br>57–71 GHz:<br>EN 303 722 V1.2.1                                                                                      | 5.4 GHz: EN 301 893 V2.1.1<br>5.8 GHz: EN 302 502 V2.1.1                 | 5.4 GHz: EN 301 893 V2.1.1<br>5.8 GHz: EN 302 502 V2.1.1              |

\*Exact frequencies as allowed by local regulations

## Bridge-in-a-Box

### 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) |

## Bridge-in-a-Box

### 5 GHz ePMP Bridge-in-a-Box 1 Gbps Ordering Information

|              |                                                                 |
|--------------|-----------------------------------------------------------------|
| C050940B901A | ePMP Bridge in a Box Force 4518 5 GHz (EU) (EU cord)            |
| C050940B902A | ePMP Bridge in a Box Force 4518 5 GHz (EU) (UK cord)            |
| C050940B903A | ePMP Bridge in a Box Force 4518 5 GHz (FCC) (US cord)           |
| C050940B904A | ePMP Bridge in a Box Force 4518 5 GHz (IC) (Canada/US cord)     |
| C050940B905A | ePMP Bridge in a Box Force 4518 5 GHz (India) (India cord)      |
| C050940B906A | ePMP Bridge in a Box Force 4518 5 GHz (ROW) (ANZ cord)          |
| C050940B907A | ePMP Bridge in a Box Force 4518 5 GHz (ROW) (Argentina cord)    |
| C050940B908A | ePMP Bridge in a Box Force 4518 5 GHz (ROW) (Brazil cord)       |
| C050940B909A | ePMP Bridge in a Box Force 4518 5 GHz (ROW) (China cord)        |
| C050940B910A | ePMP Bridge in a Box Force 4518 5 GHz (ROW) (EU cord)           |
| C050940B911A | ePMP Bridge in a Box Force 4518 5 GHz (ROW) (India cord)        |
| C050940B912A | ePMP Bridge in a Box Force 4518 5 GHz (ROW) (no cord)           |
| C050940B913A | ePMP Bridge in a Box Force 4518 5 GHz (ROW) (South Africa cord) |
| C050940B914A | ePMP Bridge in a Box Force 4518 5 GHz (ROW) (UK cord)           |
| C050940B915A | ePMP Bridge in a Box Force 4518 5 GHz (ROW) (US cord)           |

### ABOUT CAMBIUM NETWORKS

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