

# Time Sync Bridge

## Bluetooth® Wireless Technology

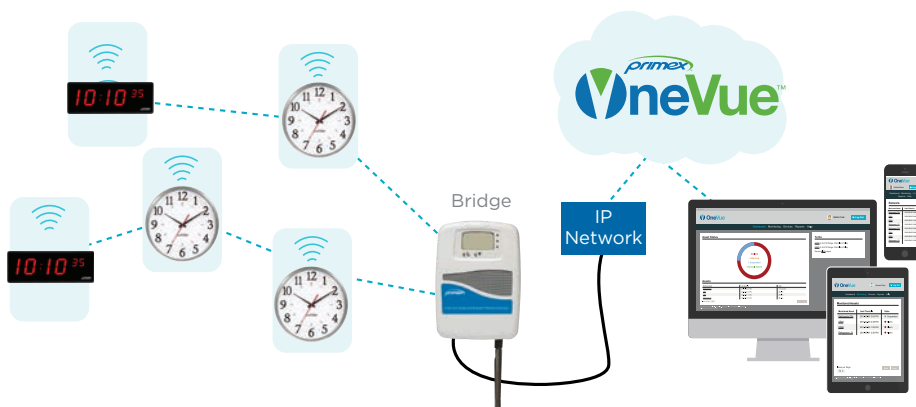


The OneVue Sync Bridge is a key component of the Bluetooth® wireless technology synchronized clock network offered by Primex. The OneVue Sync Bluetooth solution consists of a clock network that utilizes Bluetooth low energy wireless technology as its communication method. The Bridge communicates with the OneVue cloud application, acquiring accurate time and clock configuration information and passing the information to the clocks within the network. The Bridge also relays clock status back to OneVue via an IP network connection. Information on individual clocks such as battery status, radio frequency conditions, and clock or network errors are also relayed to OneVue by the Bridge.

The OneVue Sync Bluetooth solution uses Bluetooth low energy wireless technology to form the inter-clock and clock-to-bridge connections. Bluetooth low energy wireless technology uses the 2.4 GHz ISM band and employs adaptive frequency hopping techniques to reduce interference with other devices.



Time Sync Bridge



- Clocks 'wake up' once daily
- Clocks synchronize time via the Bridge
- Clocks form network based on strongest signal to another clock or a Bridge
- If one clock fails, other clocks will 'find their way home' to the strongest signal
- Bridge reports clock status to OneVue
- OneVue accessible via PC or mobile device

### BRIDGE

PART NO.	DESCRIPTION
141-000001	OneVue Sync Bluetooth Bridge, Wi-Fi Connection, Programming Cable, Batteries, Velcro Mounting, Power Supply
141-000002	OneVue Sync Bluetooth Bridge, PoE Connection, Programming Cable, Category 5 Cable, Batteries, Velcro Mounting, Power Supply

### ACCESSORIES

PART NO.	DESCRIPTION
400-000078	Power Cord Extension (2 meter), sensors Extension cable for power supply
400-000082	Replacement Sensor Power Supply 5 VDC (1 A max) power supply
400-000080	Replacement Sensor Battery Pack 3.0v Energizer L91-FR6 3.0V Battery Pack (2 AA batteries in single pack)

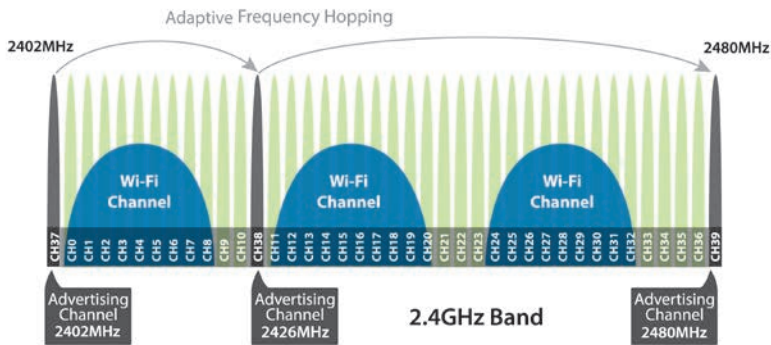
Note: Each Bridge comes standard with an AC-Adapter and Backup Battery pack. The accessories listed above are for re-order or if an AC power cable extension is required (installation specific).



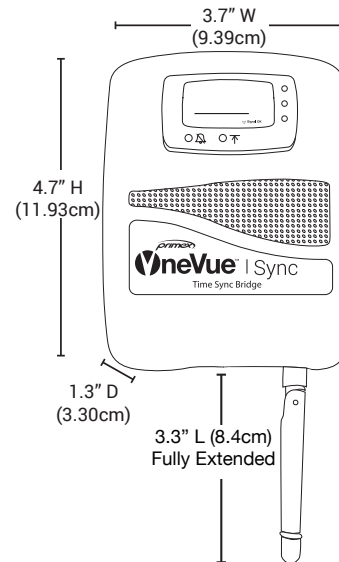
## FEATURES

- Supports bi-directional communication with clocks
  - Sends updated Time & Configuration to clock network
  - Receives individual clock status from clocks and network
- Updates time, collects and reports clocks' status once per day after 8-hour deployment mode\*
- \* Deployment Mode is entered when clocks and Bridge are first powered on, network builds every ½ hour for 8 hours

- LCD display
  - Connection icon for OneVue connection status
  - LCD provides Bridge status information
- LED indicators
  - Green LED indicates external power is applied
  - Yellow LED signals connection issues with OneVue
  - Red LED signals Bridge not able to get NTP time



Note: Channels 37, 38, and 39 are used with the Bridge.  
If the Bridge detects interference 37 it will hop to channel 38 or 39.



Note: Orient the Bluetooth Antenna to point straight down (vertically) from the device to maximize its signal reception.

## IP NETWORK CONNECTION

- **Wireless Networking Protocols:** 802.11b, 11g, 11n single stream, 2.4 GHz
- **Wired Ethernet (optional)** with Power over Ethernet (PoE) model; 10/100Mbps Ethernet IEEE Standard 802.3
- **Encryption Protocols:** WEP, WPA, WPA2(AES and TKIP)
- **Authentication Protocols:** EAP-FAST, EAP-TLS, EAP-TTLS, PEAP-VO-MSCHAP, PEAP-V1-GTC
- **Data Packet Size:** typically less than 5 kilobytes (kB)
- **Network Communication Protocols:** Hypertext Transfer Protocol Secure (HTTPS)
- **IP Addressing:** Dynamic Host Configuration Protocol (DHCP), static IP addressing

## ENCLOSURE

- **ABS plastic**
- **Case Dimension:** 4.7" H x 3.7" W x 1.3" D (11.93cm x 9.39cm x 3.30cm)
- **External Antenna Dimension:** 3.3" L (8.4cm), 0.3" Diameter (0.8cm)
- **Weight:** 0.3 lb (136 grams) with backup battery pack
- **LCD display size:** 0.75" H x 1.38" W (1.90cm x 3.50cm)
- **LED Status Indicators:** green, yellow, red
- **Two User Buttons:** LED Alarm Silence button, manual network connection button
- **Mounting Options:** Keyhole slot for wall mounting, or surface/wall mounting using supplied dual-lock adhesive mounting strips
- **Battery backup:** 2 AA Lithium 1.5V batteries. Supplies up to 8 hours of backup power.

## POWER

- **AC Power Adapter**
  - 5V DC USB Mini B (5 pin Connector)
  - 5 ft (1.5m) cable
  - Input: 100-240 VAC, 50/60HZ, 0.4A
  - Outut: 5V, 1.0A max
- **Power over Ethernet (Model dependent)**
  - Compliant with IEEE 802.af standards

## ENVIRONMENTAL

- **Operating temp:** 32 °F to 122 °F (0 °C to + 60 °C) – indoor use only
- **Storage temp:** - 4 °F to 140 °F (-20 °C to + 85 °C)

## CERTIFICATION

- FCC, CE, IC and Bluetooth® Certified

To Learn More:

Call - 855-602-2934

Email - [info@primexinc.com](mailto:info@primexinc.com)

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