QUICK INSTALL GUIDE

High Power AC1200 Dual-Band Outdoor Bridging Kit
XWO-BKT1

Includes:

▸ XWO-BAP1 Wireless Access Points (2)

▸ PoE Injectors and Power Cords (2)

▸ Mounting Brackets and Hardware (2)

▸ Ethernet Cables (2)

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READ ME FIRST - CONTROLLER COMPATIBILITY

Because the XWO-BAP1s in this kit are designed for use primarily as a wireless bridge, they are NOT compatible with the Luxul XWC-1000 Wireless Controller.

AP SETUP AND CONFIGURATION

1 Physical Installation

The XWO-BAP1 access points are designed for simple and efficient installation. However, due to the inherent complexity of outdoor installation, installation should be be performed only by experienced professionals. A single XWO-BAP1 can be installed to cover a large outdoor area with 2.4Ghz Wi-Fi, while multiple XWO-BAP1's can support both bridging and outdoor coverage.

Installation and Placement for Bridging

Because the 5Ghz signal generated by the XWO-BAP1 is highly directional, placement and aim is critical. For best performance, consider obstructions, best line-of-sight placement, and "aim" between the APs.
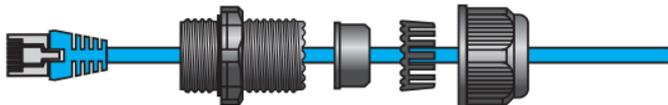
Installation and Placement for Coverage

Because the signal generated by the XWO-BAP1 is directional, the unit should be located at the perimeter of the desired coverage area, with the large flat surface aimed toward the center.

Mounting the Access Points

Mounting the access points is a simple process outlined in the following steps.

1. Refer to the included Mounting Guide leaflet to assemble the mounts and secure the APs to a pole or wall mount.

2. Thread the Ethernet cable through the cable gland assembly as shown, connect it to the Ethernet connector, secure the cable gland to the threaded recess on the access point, then tighten the cable gland nut to secure and seal the cable gland.

Cable gland exploded view

3. Adjust the access point for best performance. The vertical elevation angle can be adjusted with the four hex screws on the mount, while the horizontal angle can be adjusted by loosening the clamp and rotating the assembly on the pipe.

⚠ **CAUTION:** *To comply with RF regulations, the AP should be adjusted from 0 to -20 degrees (horizontal to downward-facing).*

❌ **Warning:** *Do not locate the access point where it can come into contact with overhead power lines or other electric circuits. When installing the antenna, take extreme care not to come into contact with such circuits, as they may cause serious injury or death.*

✅ **Note:** *For proper installation and grounding of the antenna, please refer to national and local codes (e.g. U.S.: NFPA 70, National Electrical Code, Article 810, Canada: Canadian Electrical Code, Section 54). Statement 280.*

AP SETUP AND CONFIGURATION CONT.

❷ Connecting Ethernet and Power

Ethernet and Power

The XWO-BAP1's in this kit are PoE ready and support 802.3at PoE. A PoE injector is included with the device. To apply power, simply connect the end of the Ethernet cable to which the access point is connected to the provided PoE injector or other PoE switch. An Ethernet cable length of up to 300 feet can be used.

> ✅ **Note:** *Category-6 shielded twisted pair is recommended for best results and stable data transmission at the highest data rates. However, Category-5, super Category-5 or Category-6 unshielded twisted pair (CAT5/CAT5e/CAT6 UTP) cable can also be used.*

PoE Injector Setup

▶ **Data In:** Connect an Ethernet cable from your router or switch to the **Data In** port of the included PoE Injector

▶ **Data & PWR Out:** Connect an Ethernet cable from the **Data & PWR Out** port of the included PoE Injector to the PoE Port of the XWO-BKT1

▶ **AC Power:** Connect the included AC Cord to the Power Input of the Included Injector first and then to the AC outlet.

PoE injector

③ Preparing for Access

IP Addressing

If the XWO-BAP1s are connected to a network with a 192.168.0.X address scheme, and your computer shares a similar address on the same network, you can skip to the next step, **Access and Setup**.

✅ **Note:** *If another device on your network shares an address of 192.168.0.10 or 192.168.0.11, you'll need to temporarily reassign or remove that device while you configure the APs.*

If your network uses an address scheme other than 192.168.0.X, you'll need to set a temporary static IP address on the computer you're using for configuration. To do so, set the IP address of your computer to an address in the 192.168.0.X range, then set the Gateway/Router address to 192.168.0.10 (the default IP address of one of the XWO-BAP1s in the kit).

Once you're finished configuring the APs, you can return your computer's IP configuration to normal, typically "Obtain Automatically/DHCP."

✅ **Note:** *Visit http://luxul.com/ip-addressing to learn more about changing your computer's IP address and getting connected.*

✅ **Note:** *The XWO-BAP1 is not a router and will need to be connected to a network with a router in order to deliver Internet access.*

④ Access and Setup

Getting Connected

The XWO-BAP1s in this kit are pre-configured to create a wireless bridge. You'll need to connect to both APs individually to configure wireless security, create additional bridges, or to make other changes to the default configuration.

▶ **Connecting Via an Ethernet Device:** Use Ethernet cable to connect your computer to the PoE switch or PoE injector to which the XWO-BAP1 is connected. Ethernet is the preferred method of connection.

▶ **Connecting Via a Wireless Device:** Connect your client device to the XWO-AP1 default wireless network named **Luxul_XWO-BAP1**. The wireless network will run in Open Security mode, so no passphrase is required until Wireless Security is configured.

✅ **Note:** *Because both XWO-BAP1 SSIDs will be named "Luxul_XWO-BAP1", you will need to connect and change one SSID to a different name in order to distinguish the two APs wirelessly.*

Logging In

To access the AP's web configuration, open your web browser and enter one of the AP's default IP addresses in the address field. Log in to the AP using the default user name and password:

Default IP: 192.168.0.10 or 192.168.0.11
Username: admin
Password: admin

Once logged in, use Quick Setup and follow the online help to configure security and bridging as desired. For more information on configuring the XWO-BAP1s for various applications, visit *http://luxul.com/wireless-bridging*.

❺ Hardware Operation

LED Indicators

The LED indicators are located on the bottom portion of the enclosure, near the cable gland.

PWR: If the green Power LED is On, the XWO-BAP1 is powered. If the Power LED is Off, the XWO-BAP1 is not receiving power. The Power LED blinks when the XWO-BAP1 is booting.

WLAN: If the blue LED is On, the wireless radio is active and wireless access is enabled. Off indicates the wireless radio is not active and wireless access is disabled.

PoE Injector: If the Green ON LED is illuminated, power is connected to the injector. If the ON LED is not lit, the injector is not receiving power.

Reset Button: The Reset button is located inside the cable gland opening of the XWO-BAP1 and is used to restore factory default settings. To Restore Default Settings, with the XWO-BAP1 powered on, press and hold the Reset button for approximately 10 seconds, then release.

> ⚠️ **CAUTION:** *Holding the Reset button for more than a few seconds will restore the AP to factory default and remove any custom configuration.*

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