Quick Installation Guide

For XD4 Models

XD4 Series High Density Access Points (APs) are a new class of low cost, zero touch APs within the Xirrus wireless portfolio. With four 802.11ac radios, a powerful integrated controller, application-level intelligence, automated provisioning, and optional cloud management, the APs deliver robust wireless connectivity in areas of medium to high user density.

This Guide covers the steps required to install and start the AP. For detailed configuration information, see the *Xirrus Wireless AP User's Guide*.

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You Need the Following Items

- Power and Ethernet connection(s) to your wired network using Cat 5e or Cat 6 cables. The AP has two Gigabit Ethernet ports:

    - **GIG1/PoE**—This Gigabit port powers the AP via Power over Ethernet (PoE) using a Cat 5e or Cat 6 cable that also carries data traffic. See below for Power details.

    - (Optional) **GIG2**—Connection to this second, data-only Gigabit port provides additional bandwidth. Use Cat 5E or Cat 6 cable.

        NOTE: The AP must be connected to PoE networks without routing cabling to the outside plant. This ensures that cabling is not exposed to lightning strikes or possible crossover from high voltage lines. Xirrus AP, PoE+ Injectors, or Switches must be installed and used indoors.

- Power— See the matrix below to select a compatible PoE+ (IEEE802.11at) switch or Xirrus-supplied injector for your AP. If using an injector, you must provide a data connection from the switch to the injector as well as another cable from the injector's OUT port to the AP's GIGABIT1/PoE+ port. PoE+ injectors require an AC outlet.

AP Model	Generic PoE+ Switch (802.3at)	Xirrus PoE+ Switch (802.3at)	XP1-MSI-30	XP1-MSI-75M	XP1-MSI-75 (POE-75U-1UP-X)	XP8-MSI-70M	XP2-MSI-95M
XD4-130		✓ (Ports 1-12 only)		✓	✓	✓	✓

- Apply power to GIGABIT POE(+) port only—other AP Gigabit ports will not draw power if connected to a powered switch port, and AP LEDs will not light.

- All Xirrus XD4 APs are Type 2, Class 4 PoE-802.3at devices. If your switch vendor provides a setting for the type of powered-device detection with options such as Legacy, 4-Point, or BOTH, set the port to BOTH or 4-Point. Do not use settings intended for legacy devices.

The total Cat 5e or Cat 6 cable length from the switch to the AP must be no more than 100 m, including all cable segments.

The AP must be connected to PoGE networks without routing cables to the outside plant—ensuring that cables aren't exposed to lightning strikes or crossover from high voltage lines.

◆ Workstation with a Web browser to configure the AP via the Xirrus Management System/ Mobilize or directly via the AP's Windows Management Interface (WMI).

◆ Ceiling Mount—you may mount directly to a ceiling. Use two user-supplied screws that are appropriate for the construction material of the ceiling (we recommend max screw size #8, Pan Head type). Alternatively, or for the ability to lock in place or detect tampering, use the furnished mounting plate with four user-supplied screws that are appropriate for the construction type of the mounting site.

◆ For a locked installation, supply a zip-tie, small lock, or other locking hardware.

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Choose a Suitable Location

The AP can be installed on the ceiling or on a wall or may be placed on a shelf.

◆ Choose a location that is central to your users.

◆ The location must be capable of supporting the weight of the AP and the mounting bracket (about 2 pounds total).

◆ For optimal placement, we recommend that a predictive survey be performed by a qualified Xirrus partner.

◆ Maintain a distance of at least 50 feet between additional APs.

◆ Keep the unit away from electrical devices or appliances that generate RF noise-at least 3 to 6 feet (1 to 2 meters).

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Install Mounting Hardware and AP

The AP can be installed directly on a normal ceiling as described in the next section:

◆ 3A-Direct Ceiling Mount without Mounting Plate—Use the mounting plate (below) if you want a more secure mounting, the ability to lock the AP in place, or an easy to dismount and remount installation.

◆ 4B-Ceiling Mount with Mounting Plate

3A-Direct Ceiling Mount without Mounting Plate

Direct Ceiling Mount:

To attach the AP directly to the ceiling, use the mounting holes on the back of the AP, indicated in red in the photo.

You need two screws of an appropriate type for the construction type at the mounting site. We suggest screw size #8, Pan Head.

> *NOTE: The AP must not be disassembled - do not remove the back of the AP to tighten the screws after mounting.*

1. Remove the mounting plate from the back of the AP by pushing it down and rotating it to the left

2. Mark the location for the two mounting screws—3.5″ (8.9 cm) apart, on center.

3. Cut an access hole for the cable(s) in the ceiling and draw enough cable through to attach to the AP after it is installed.

4. Install two screws in the ceiling so that they protrude 1/8" (.32 cm) between the mounting surface and the head of the screw.

5. Connect the cable that carries power and data to **GIG1/PoE** (shown in red). If you are using a Xirrus-supplied injector, its CONNECT LED should light (for 70W and higher injectors, it is OK if it blinks). If power is being properly supplied to the AP, the LEDs on its front will light and then commence blinking in their boot pattern. An additional data connection may be plugged into **GIG2** (optional).

6. Align the holes in the back of the AP over the screws protruding from the ceiling. Push the AP up on the screw heads and rotate the AP to the right until it locks in place.
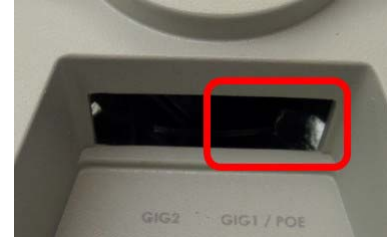
3B-Ceiling Mount with Mounting Plate

The following steps use a mounting plate, which offers ease of dismount and a locking option for the AP.

1. Remove the mounting plate from the back of the AP by pushing it down and rotating it to the left

2. Use the four holes on the AP mounting plate to mark the placement of four screws to install in the ceiling. You must supply four screws of an appropriate type for your ceiling construction type.

3. Drill and prepare holes for the screws as appropriate.

4. Cut an access hole for the cable(s) in the ceiling and draw enough cable through to attach to the AP after it is installed.

5. Align the AP mounting plate over the prepared locations and secure it with the screws. Do not over-tighten.

6. Connect the cable that carries power and data to **GIG1/PoE** (shown in red). If you are using a Xirrus-supplied injector, its CONNECT LED should light (for 70W and higher injectors, it is OK if it blinks). If power is being properly supplied to the AP, the LEDs on its front will light and then commence blinking in their boot pattern. An additional data connection may be plugged into **GIG2** (optional).

7. Align the two slots in the back of the AP chassis shown here with the corresponding tabs in the AP mounting plate. Make sure that the locking slug lines up with the matching hole on the mounting plate (see Step 9 below).

8. Push the AP chassis up on the mounting plate tabs and rotate the AP to the right until it snaps in place.

9. To secure the AP to the mounting plate, feed a customer-provided zip tie or other locking hardware through the hole in the top of the locking slug and the matching hole in the locking plate.

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Zero-Touch Provisioning and Ongoing Management

Most customers employ the Xirrus Management System (XMS) for the initial setup and continuing management of Xirrus devices.   XMS users can readily set up their new devices for zero-touch provisioning and ongoing maintenance via the following platforms. Wait five minutes after powering up the AP to automatically discover it, then use XMS to view and manage it. Newly discovered APs are automatically assigned to the XMS "default" profile, and will receive the configuration defined for that profile.

- XMS-Cloud—performs zero-touch provisioning as shown in this quick video guide: http://www.xirrus.com/TV/Training/XMS-cloud-Next-Generation. Your new APs appear in XMS even before you receive your equipment. When the email arrives with your login information, use XMS cloud to specify the initial settings for your APs. A Guided Tour will walk you through the basic steps of creating a profile containing configuration settings, including creating SSIDs and firewall/application control rules. Once the installed AP has Internet connectivity, it will automatically contact Xirrus for cloud-based zero-touch provisioning per your settings, install the latest applicable license, and upgrade the AP to the latest software version as appropriate.
- XMS-Enterprise—automatically detects and provisions new Xirrus devices deployed in your network via a similar zero-touch provisioning approach. Create and configure a default profile for newly added APs—these new devices will automatically receive the configuration defined in your default profile.

If you are not using XMS, new devices can be licensed via the Xirrus Mobilize platform (pre-order required) as shown in this video: http://www.xirrus.com/TV/Training/Mobilize-Training. Your welcome email will contain login/account information.

If you are not using XMS or Mobilize, please see the *Xirrus Wireless AP User's Guide* to configure your AP manually via the Express Setup menu option. The User Guide is available from http://support.xirrus.com (login required). Select the Libraries tab and click the ArrayOS - *XR Platform Latest Release* link.

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Using the Reset Button

The reset button returns the AP to factory default settings while rebooting. It is located on the bottom of the unit next to the slot for the locking slug, opposite the side with the Gigabit ports as shown. Use the reset button as follows:

- Unplug the cable from the **GIGABIT1/PoE+** port.
- Depress the reset button all the way (there should be a faint click????) and hold it.
- Plug the cable back in and continue to keep the button pressed for 10 seconds. This triggers the factory default reset during the boot process.

Environmental Specifications

◆ Operating Temperature: 0-50°C / 32-122°F, 0-90% humidity, non-condensing.