
Product Description

Fusion 50 Access Point is a high-performance SMB 802.11b/g access point, which also supports bridge mode to enable multiple wired Ethernet clients' access to wireless environments. In addition, Fusion 50 supports Wi-Fi protected access standards to provide higher-level of security for network data and communication. Fusion 50 is also fully compatible with IEEE 802.11b standard, so it is able to connect to existing 802.11b-compliant devices.

Packaging

- Fusion 50 Access Point
- Power adapter (5V)
- Detachable antennas (two)
- 1.5" sheet metal screws (two)
- 1" wood sheet rock screws (two)
- Plastic wall anchors (two)
- Fusion 50 Access Point Quick Start Guide

Draft

Installation

Prerequisites

The following are the prerequisites that you need to adhere to before attempting to install the Fusion 50 access point:

- For ease of cable connections, ensure that the access point is near a hub or computer, as well as a reliable power source.
- Ensure that the access point is away from any equipment that might cause radio signal interference, such as, transformers, heavy-duty motors, fluorescent lights, microwave ovens, refrigerators, or other.

Note: Do not place the Fusion 50 on any type of metal surface.

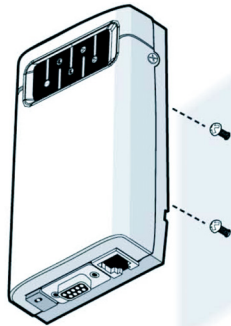
Mounting the Fusion 50 Access Point

Do the following to mount an access point:

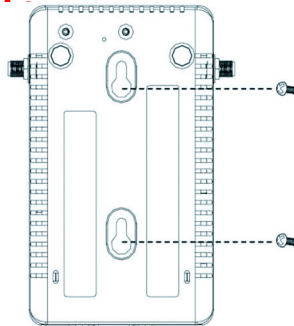
1. Find a solid mounting point on the wall, such as a stud or main building member. You may need to use a stud finder to find a solid wooden structure.

Installation

2. Place marks on the wall that correspond to the distance between the two mounting holes located at the back of the AP. The holes are approximately 2.5" apart.
3. Use a drill (approximately 3/16 drill bit) to make a hole into the wall where you made the marks.
4. Insert the wall anchors (if necessary).
5. Attach the mounting screws to the wall where you made the holes.
6. Mount the unit onto the wall by fitting the mounting holes to the screws.



Place the screws on the wall



Place the unit onto the wall

Connecting the Cables

You can provide power to the Fusion 50 either by using the AC power module or over an Ethernet connection, which utilizes power-sourcing equipment (PSE).

Note: If you intend to use an Ethernet connection for power, ensure that the connecting device (that is, a hub or switch) is Power over Ethernet (PoE) IEEE compliant.

Do the following to connect the cables for the Fusion 50:

- Connect the power cable to the power adaptor and then to a power supply.
- Connect the Ethernet cable to the Ethernet port and then to a client device such as a hub or computer. Again, you can use an Ethernet connection to provide power to the AP.

At power up, the AP starts a one-minute boot-up sequence. The Power LED flash green as soon as power is applied. You can perform initial configuration as soon as the system completes its boot-up sequence (see “Configuration” on page 6).

Note: To avoid the possibility of a transmission loop, do not connect an AP that is set in wireless client (infrastructure) mode directly to the LAN (e.g., through a wall port or through a hub directly connected to the LAN).

Configuration

Prerequisites

Before configuring the Fusion 50 access point, ensure that your hub or computer is on the same network as the access point and find the MAC address on the label of the access point (for example, 00:12:32:A3:81:2c:15).

Creating an AP Template

An AP template is a quick way to configure and activate several access points discovered on your network.

Do the following to create an AP Template:

1. Start a web browser session.
2. Using HTTP, enter the defined IP address of the controller in the URL field, for example:

```
http://192.168.110.104
```

Note: 192.168.110.104 is the default IP used to start CompleteMobility Express. If this address does not open the User Authentication page, contact the technical support department for U4EA wireless.

Configuration

3. Enter your user name (default is *admin*).
4. Enter your password (default is *default*).
5. Click **Login**.
6. Go to Wireless LAN > Controller > Configuration > Access Points > AP Template tab and check the **Basic** radio button.
7. Click **Edit**.

The screenshot shows the 'ACCESS POINT TEMPLATE CONFIGURATION' web page. At the top, there are tabs for 'Activated APs', 'AP Template', 'New APs', and 'AP Operations'. Below the tabs are 'Cancel' and 'Apply' buttons. The main configuration area includes several radio button options: 'Apply to all currently activated APs' (Yes/No), 'Automatically activate new APs' (Yes/No), and 'Apply template to new APs' (Yes/No). The 'Apply template to new APs' option is selected. Below these are input fields for 'Long Term Key Seed' (containing 32 hex digits) and 'Radio Preference' (5 GHz/2.4 GHz). A section titled 'Tunnel Port Policy Settings*' contains input fields for 'Inner DSCP' and 'Inner Layer 2 Priority'. At the bottom, there is a 'Transceiver' section with tabs for 'A' and 'G'.

Configuration

8. Keep the following default settings:
 - a. Apply to all currently activated APs: **No**.
 - b. Automatically activate new APs: **No**.
 - c. Apply template to new APs: **Yes**.
9. In the Long Term Key Seed field, enter a user-defined 32 digit hex key for LTKS. The default value is to enter **1** (one) 32 times.
10. Keep the Radio Preference at its default setting: **2.4 GHz**.
11. At this time, do not configure a Tunnel Port Policy.
12. Click the G tab and do the following to configure transceiver G (2.4 GHz):
 - a. Keep the default setting for Channel: **Auto**.
 - b. Keep the default setting for Allow Stations: **Yes**.
 - c. Set Scan for Rogues to **No**.
13. Click **Apply**.

Activating your APs

Next, view and activate all discovered (but inactive) APs on your network.

Do the following to activate APs:

1. Go to Wireless LAN > Controller > Configuration > Access Points > New APs tab.
2. Select the APs that you want activated by adding a check mark in the **Select** column.

CompleteMobility Express 5.0 Beta
(Fusion 300)

Host Name: U4EA
Uptime: 1 hour 32 minutes

Thu Jul 03 2008 18:29:23 GMT-0700 (Pacific Daylight Time) [Switch's clock is 7 hours later]

WIRELESS CONTROLLER CONFIGURATION

Activated APs | AP Template | **New APs** | AP Operations

ACTIVATE NEW ACCESS POINTS [1]

The following Access Point has been discovered on your network, but has not yet been activated for this U4EA Tech Wireless Controller.

Select	IP Address	Wired MAC Address	Last Contact	Imprinted	Security	Status
<input type="checkbox"/>	192.168.113.105	00:03:7f:12:34:56	5 seconds ago	192.168.113.201	Auto	New

Activate these APs using the template
 Activate these APs and leave the radios disabled.
(If you leave the [Tx] field blank, a key will be randomly generated.)
Long Term Key : _____ (32 hexadecimal digits)

Use shift-click / control-click to toggle the checkbox in the current row and all the rows below.

[Delete](#) [Activate](#)

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