

Antenna Installation Requirements for Experimental MeshNetworks Devices.

General

All Mesh devices have been designed and manufactured to comply with FCC Part 15 guidelines and to meet the General Population Exposure rules (47 CFR 1.1310). However, experimental devices used for engineering testing and demonstrations have not completed full FCC certification. Users are cautioned to comply with the antenna installation requirements as follows to ensure that FCC guidelines are met.

Fixed Assets

The Wireless Router (WR) and Intelligent Access Point (IAP) are designed for mounting in or on buildings (Figure 1) and on light poles (Figure 2). In these instances, the device should be placed one meter beyond where a person might be expected to stand.



Figure 1



Figure 2

Subscriber Devices

All Mesh Subscriber devices have an LED that flashes when the unit is powered and transmitting. There are two device types and three configurations that are in development for the subscriber device. The current subscriber device is only intended for operation with a personal digital assistant (PDA) or laptop computer.

One of the subscriber device types (Figure 3) is designed for use with a laptop computer on a desktop. The antenna of the device should be installed so that it is at least 5cm away from the user's body to ensure compliance with FCC guidelines.



Figure 3

The PCMCIA card is designed for use with a laptop computer or a PDA. Correct antenna installation must be followed for each device to comply with the FCC guidelines.

For the laptop Computer: Insert the PCMCIA card into the computer and attach the external antenna and cable. Mount the antenna on the back of the display panel as close to the top as possible. Leave the antenna a minimum distance of 5cm from the user's body.



Figure 4

For the PDA: Insert the PCMCIA card into the PDA and attach the external antenna. Leave the antenna a minimum distance of 5cm from the user's body.



Figure 5

Device Labeling

All devices will be labeled as follows:

CAUTION

Maintain a minimum distance of 5cm between the antenna and the user's body.