



# Cambium Networks

## **Cambium Fixed Outdoor Radio Module Assembly instructions for Professional Installers**

### **PMP 450b**

1. Insert FCCID: Z8H89FT0032 into Cambium 17dBi Sector housing.
  - a. 0dBi integrated configuration does not use array.
2. Connect ray-dome cover and secure snap to radio assembly.
3. Open rear cover of enclosure for POE access.
4. Plug in Ethernet cable from POE injector to power the device:
  - a. Connect via computer to IP address 169.254.1.1
  - b. Login to radio via GUI
  - c. Enter password
    - i. Contains FCCid (Z8H89FT0032) is visible on the GUI system tab and not alterable by third parties
    - ii. United States region code is also Locked and visible on the monitor/wireless tab

Factory programming above is secure, locked and not alterable by any third parties. Parameters below may be changed by professional installers.

- d. Select Configuration / Radio tab on GUI:
        - i. Enter antenna gain 17dBi for array or 0dBi for monopole.
        - ii. Select carrier frequency and or alternate frequency as desired within certified range. (4940-4990MHz,5725-5850MHz,5150-5250MHz,5250-5350MHz,5470-5725MHz
        - iii. Set channel bandwidth: widest 40MHz, narrowest bandwidth 5MHz.
        - iv. Select combined power in dBm (from -24 up to 27)
        - v. Select up to the maximum DL/UL ratio
        - vi. Save configuration by clicking the save icon
5. Install complete assembly at final location.

To comply with FCC and Industry Canada RF radiation exposure limits for general population, the antenna(s) used for this transmitter must be installed such that a minimum separation distance of 20cm is maintained between the radiator (antenna) and all persons at all times and must not be co-located or operating in conjunction with any other antenna or transmitter.

This Cambium module has been certified under the following conditions:

- 1) The antennas must be installed such that a minimum separation distance of 20cm is maintained between the antenna and all persons at all times.
  - 2) The transmitter module must not be co-located or operating in conjunction with any other antenna or transmitter.
- If these conditions are met then further testing will not be required.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Review the user manual for antenna information and safe minimum R.F. exposure distances.

**End Product Labelling:**

The Cambium Module is labelled with its own FCC ID. If the FCC ID is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. In that case, the final end product must be labelled in a visible area with the following:

Contains Transmitter Module FCC ID: Z8H89ft0032” or “Contains FCC ID: Z8H-89ft0032”

The OEM of the Cambium Module must only use the approved antenna(s) listed in the user manual, which have been certified with this module.

The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module or change RF related parameters in the user manual of the end product.

For more information goto: [www.cambiumnetworks.com](http://www.cambiumnetworks.com)