



# Cambium Networks

## **Cambium Fixed Outdoor Radio Module Assembly instructions for Professional Installers** **FCC Band 2400-2483.5MHz**

1. Insert FCCID: Z8H89FT0019 into center slot of Cambium 17dBi Reflector Dish.
2. Connect and secure alignment bracket with center screw to back of dish radio assembly.
3. Connect and secure 4 screws through front of dish to bracket enclosure.
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 (Z8H89FT0019) 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 dish.
    - ii. Select carrier frequency 2442MHz or alternate frequency as desired within certified range. DTS Band (2400MHz -2483.5MHz)
    - iii. Set channel bandwidth: widest 40MHz, narrowest bandwidth 5MHz.
    - iv. Select combined power in dBm (from -24 up to 29)
    - 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 0.34m 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 0.34m 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: Z8H89ft0019” or “Contains FCC ID: Z8H-89ft0019”

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 go to: [www.cambiumnetworks.com](http://www.cambiumnetworks.com)