

CMWBD-038-3-NJ

1. Introduction

The CMWBD-038-3-NJ is an ultra-wideband low PIM ceiling mounted antenna covering 380-470MHz, 698-960MHz and 1710-6000MHz. The antenna features an integrated groundplane and can be mounted on metallic or non-metallic ceilings. The antenna can be mounted by way of its N connector on surfaces up to 25mm (1") thick.

2. Select a suitable mounting location

The antenna is omni-directional and should be mounted as centrally as possible within the desired coverage area. The roof space should be accessible at this location to permit routing of cables to the radio. Select a flat, level location on the desired ceiling which is free from obstructions and not too close to other ceiling mounted items - consider downward projection of antenna and any height clearance issues with low ceilings. Take care to avoid mounting the antenna in close proximity to metal ceiling furniture such as girders, joists and air conditioning units as these objects may affect the antenna's performance. Make sure that the location is safely accessible with the equipment that you have available.

3. Mount the antenna

If the ceiling is constructed with removable ceiling tiles, it may be best to remove the tile, mount the antenna, and then re-fit. Remove the thumbscrew nut from the N type connector and set aside. Mark the position of the RF connector and drill a 16mm (3/4") diameter hole. Mount the antenna base plate on the ceiling tile and replace the thumbscrew nut tightening it firmly.

4. Route and terminate the coaxial cable

Route the coaxial cable from the radio or combiner to the mounting location, taking care to avoid running it adjacent to existing wiring or ceiling furniture. Next fit a suitable male N-type coaxial connector or adaptor (as applicable) to the cable and connect the cable to the antenna. For a low PIM installation suitable low PIM cables and connectors should be used. When connecting the N male connector to the N female bulkhead located on the antenna the recommended torque is 3-4 Nm for Low PIM applications.

5. Commission and test

Using a suitable antenna analyser, carry out a VSWR test in each freq. band. A VSWR of <2.5:1 should be achieved across all bands.

6. Notices



European Waste Electronic Equipment Directive 2002/96/EC - Please ensure that your old Waste Electricals and Electronics are recycled do not throw them away into standard waste.



Directive 2011/65/EU (RoHS 2) - This product is fully compliant with the RoHS 2 directive.

Waiver: This document represents information compiled to the best of our present knowledge. It is not intended to as a representation or warranty of fitness of the products described for any particular purpose. This document details guidelines for general information purposes only and the antenna should only be installed by a qualified installer in compliance with local regulations.