Installation Instruction – SW3-772 CM[X]-24-58-2[VAR] Series

SW3-772 - Document Version 1.0

A. Introduction

The CM[X]-24-58 range has been designed to provide MiMo dual band WiFi coverage in an ultra low profile package. The compact, robust low-profile housing contains up to four antenna elements with effective isolation and low correlation covering 2.4-2.5/4.9-6GHz.

The antenna is designed to be ceiling mounted and can be fitted on a conductive or non-conductive panel. Supplied with integral flame retardant CS32 cables (Compliant to UNECE 118.01 and EN45545-2) and a halogen free flame retardant radome, the antenna is suitable for many environments.

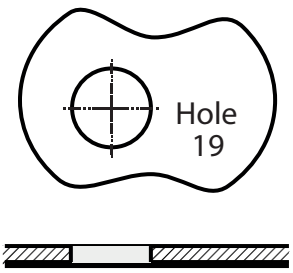
B. Select a suitable mounting location:

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 wireless device.

Select a flat level location on the desired ceiling which is free from obstructions and not close to other ceiling mounted items. Consider downward projection of antenna and any height clearance issues with low ceilings.

Safety Note
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.

C. 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.
Mark the centre position of the antenna location and make a 19mm (3/4") hole.
Remove the adhesive pad backing and place the antenna in position.
Fit washer and nut - tighten to 4Nm.

D. Routing and terminating coaxial cable(s)

Route the coaxial cables to the wireless device, taking care to avoid running adjacent to existing wiring or ceiling furniture. The cables are pre-terminated with reverse polarity SMA plugs. If this type is unsuitable, use an adapter or fit the correct type.

E. Commission and test

Using a suitable antenna analyser, carry out a VSWR test in each freq. band.
The VSWR should comply with values shown in the data sheet.
Connect the antenna to the coaxial cable and carry out a system check.

F. 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.

RF Safety Note

This antenna should be mounted in such a way that no person is within 20cm (8") of the antenna during use.

Directive 2011/65/EU (RoHS 2)

This product is fully compliant with the RoHS 2 directive. Exemption 6.c applies