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Revision History Table		
Named revision	Date	Comment:
01	2025-03-18	First version

Antenna Details

The antenna in 102895 Wireless Temperature and Humidity Sensor US is an integrated PCB antenna. It is designed using a rigid flex solution where the antenna part of the PCB is separated from the main PCB with a flexible PCB area to allow it to be mounted at an angle.

The main characteristics of the antenna are:

- Antenna Type: Integrated PCB Antenna
- Antenna structure: Helix
- Total copper length: 105 mm
- Radiation pattern: Similar to dipole antenna
- Antenna Details : Product PCB, part number 102798
- Design: Disruptive Technologies Research AS
- Antenna gain: < -4 dBd

The PCB thickness is 1.62 mm and the area of the antenna on the PCB is 19 mm x 5.6 mm.

Test results

The antenna gain was measured at the top, middle and bottom frequencies of the band in the RF test report "**PRJ0065558 REP078715 Nemko TRF FCC Part 15.247 DTS.pdf**". The results are shown in the table below.

Carrier Frequency	Peak Conducted Power (dBm)	Peak EIRP (dBm)	Antenna Gain (dBi)
903.25 MHz	12.6	1.6	-11.1
915.00 MHz	12.5	5.1	-7.4
926.75 MHz	12.5	7.1	-5.4