



**RAD-4**

## Design of 2.4 GHZ High Gain Helical Directional Antenna

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This paper presents the design of a high gain helical directional antenna. The antenna was designed to operate at 2.4 GHz .The antenna is implemented in cylindrical dielectric which made of the Teflon with diameter 3cm and it is only about 46 cm long and can easily be constructed from ordinary and inexpensive parts. The proposed antenna design is simulated on CST STUDIO SUITE. The antenna is fabricated and tested. Good agreement is achieved between the simulated and measured results. The antenna parameters are discussed in this paper. this antenna is useful for extending the range of small 2.4 GHz wireless cameras and for reducing interference of Wi-Fi networking signals.