

liwari CloudTag

Antenna specification

31.5.2024 rev. 0.1

The liwari CloudTag antenna is designed to be integrated onto a UWB radio based tag design. It is designed specifically to work with Qorvo DW1000 UWB transceiver providing a low cost, high efficiency compact solution with good efficiency, fidelity and low group delay variation with antenna orientation. The antenna is designed to be printed on 0.8 mm FR4 PCB substrate.

Antenna specifications

Operational Frequency Range:	3.5 GHz to 7 GHz
Maximum Gain:	+3.5dBi at 4GHz +3.7dBi at 6.5 GHz
Radiation Pattern:	Omni-directional

$f = 4 \text{ GHz}$

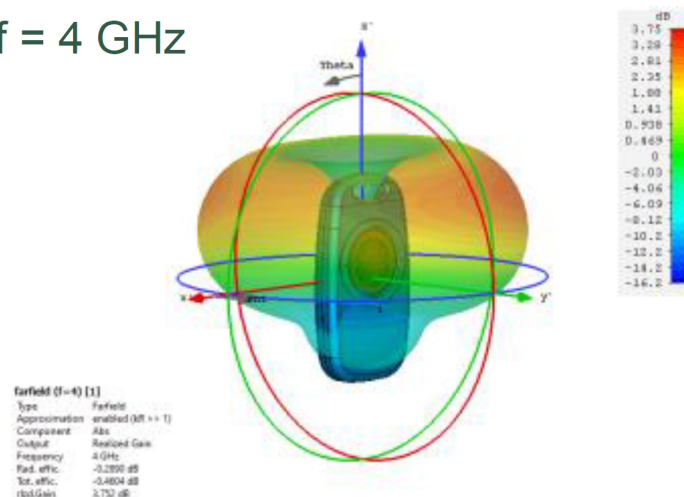


Figure 1. Antenna pattern of CloudTag at 4GHz

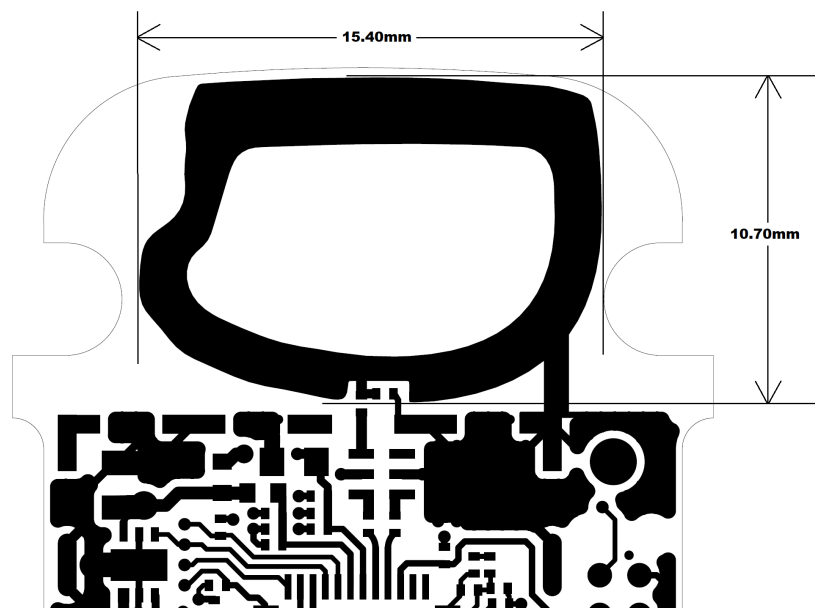


Figure 2. Dimensions of CloudTag antenna



Figure 3. Photo of CloudTag antenna