

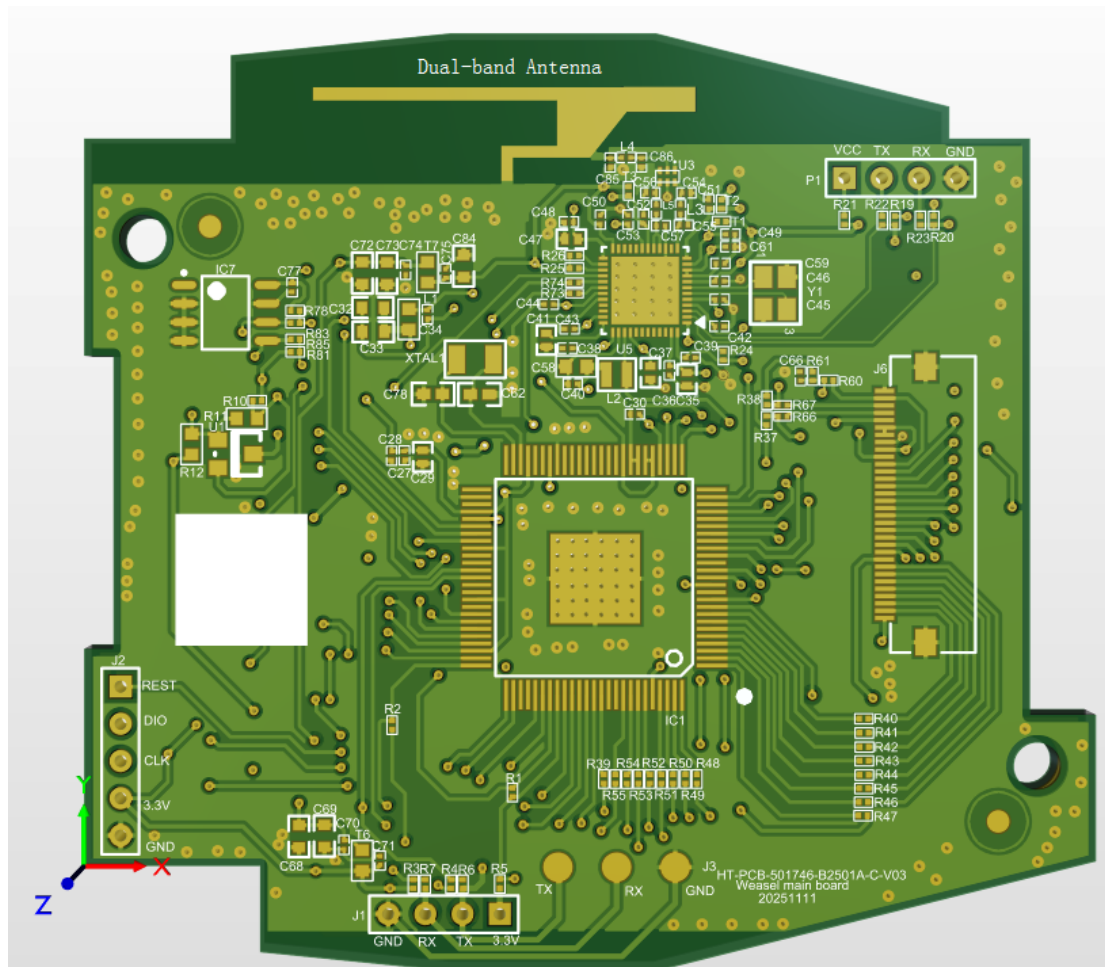
Antenna Specification

Version: 1.0

Update date: 2026-03-10

Model Name	Dual-Band WiFi Antenna
Manufacturer	Shenzhen H&T Intelligent Control Co., Ltd.
MPN	501746-B2501A
Address	D zone, 10/F, Shenzhen Academy of Aerospace Technology, Hi-Tech Park, South Zone, Shenzhen, China 518057

Dual-band Antenna Design:



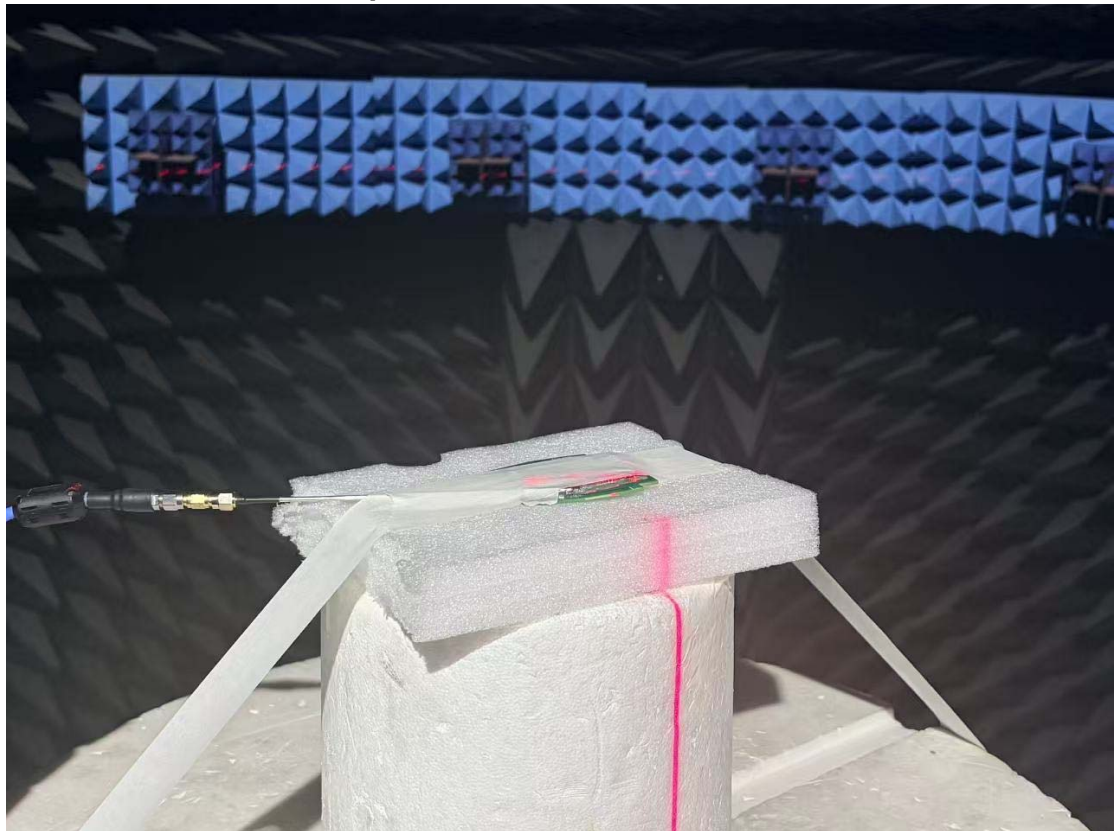
Antenna Features	
Frequency	2.4GHz~2.5GHz,5.15GHz~5.85GHz
Impedance	50 Ω
VSWR	2.0 Max.
Gain (Max.)	4.31dBi@2.4GHz~2.5GHz,3.75dBi@5.15GHz~5.85GHz
Radiation	Omni-directional
Polarization	Linear

Antenna S11 Test:



02:31:37 PM 02/11/2026

Antenna OTA Test Set-up:



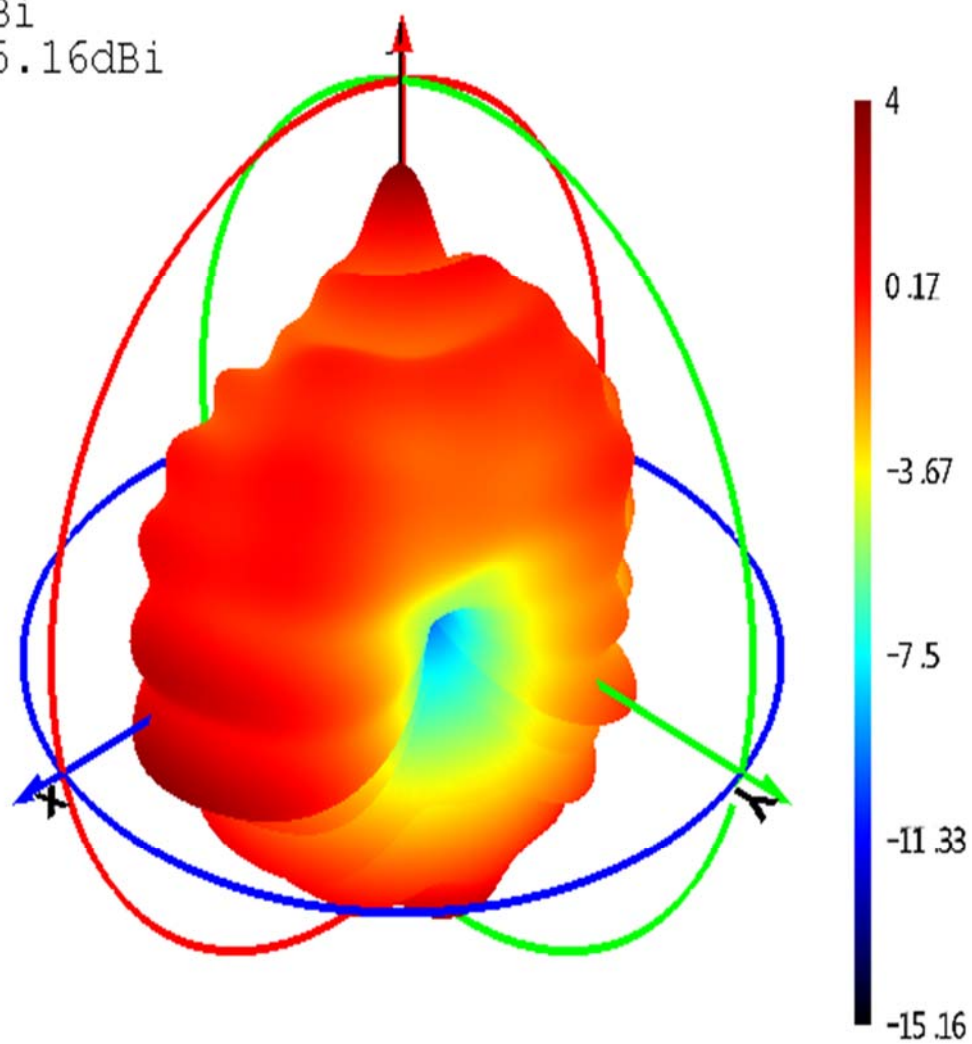
OTA Test Report:

Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	4.27	-0.90	81.20
2410	4.31	-0.83	82.54
2420	3.92	-1.01	79.32
2430	3.57	-1.07	78.18
2440	3.82	-1.06	78.42
2450	4.00	-1.04	78.74
2460	3.85	-1.12	77.25
2470	3.23	-1.22	75.43
2480	2.96	-1.20	75.85
2490	2.78	-1.33	73.60
2500	3.07	-1.20	75.79
5150	3.04	-2.10	61.71
5180	2.70	-1.81	65.86
5230	1.25	-3.21	47.71
5280	3.07	-1.52	70.51
5330	2.19	-2.76	53.01
5380	3.41	-1.44	71.80
5430	2.46	-2.23	59.85
5480	2.44	-2.43	57.17
5530	3.62	-1.76	66.61
5580	2.99	-2.00	63.10
5630	3.75	-1.80	66.13
5680	3.11	-2.14	61.14
5730	3.57	-1.84	65.41
5780	3.49	-2.03	62.63
5830	3.16	-2.34	58.39
5880	3.18	-2.44	57.01

Radiation Pattern for 2.45GHz

MAX: 4dBi

MIN: -15.16dBi



Radiation Pattern for 5.5GHz

MAX:3.62dBi
MIN:-39.98dBi

