



BL-M9380BT1 Onboard ANT Specification

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Revision History

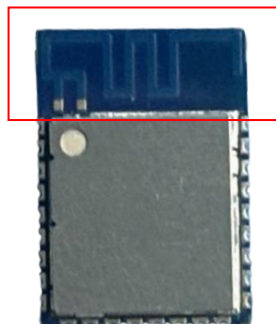
Revision	Summary	Release Date
0.1	Internal release	2022-06-22
1.0	Official release	2023-02-23

Antenna Name: BL-M9380BT1 Onboard ANT

Frequency: 2.4~2.5GHz

Revision: V1.0

Antenna area



1. Introduction

BL-M9380BT1 module' s onboard printed antenna support 2.4GHz frequency band. Designed by

IFA antenna, theory almost Omni-directional radiation for far field.

Good port matching ,low return loss ,high efficiency can make communication more easily.

1.1 Features

- Operating Frequencies: 2400~2500MHz
- Polarization: Linear
- Antenna Type: Onboard printed PCB antenna

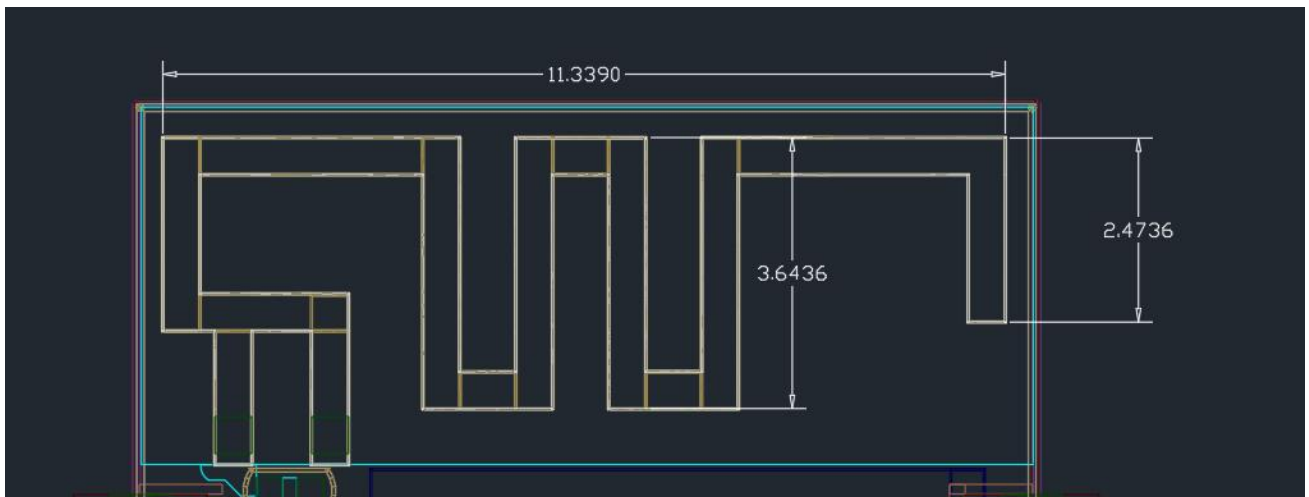
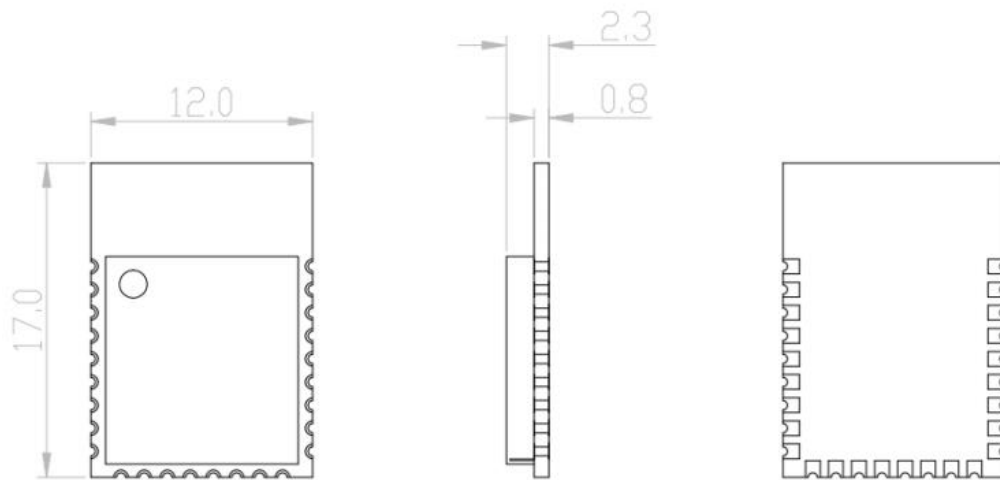
1.2 Applications

- IP Camera
- Printer
- STB
- Smart TV
- Screen thrower
- Intelligent home furnishing
- Other devices which need to be supported by wireless network

1.3 General Specifications

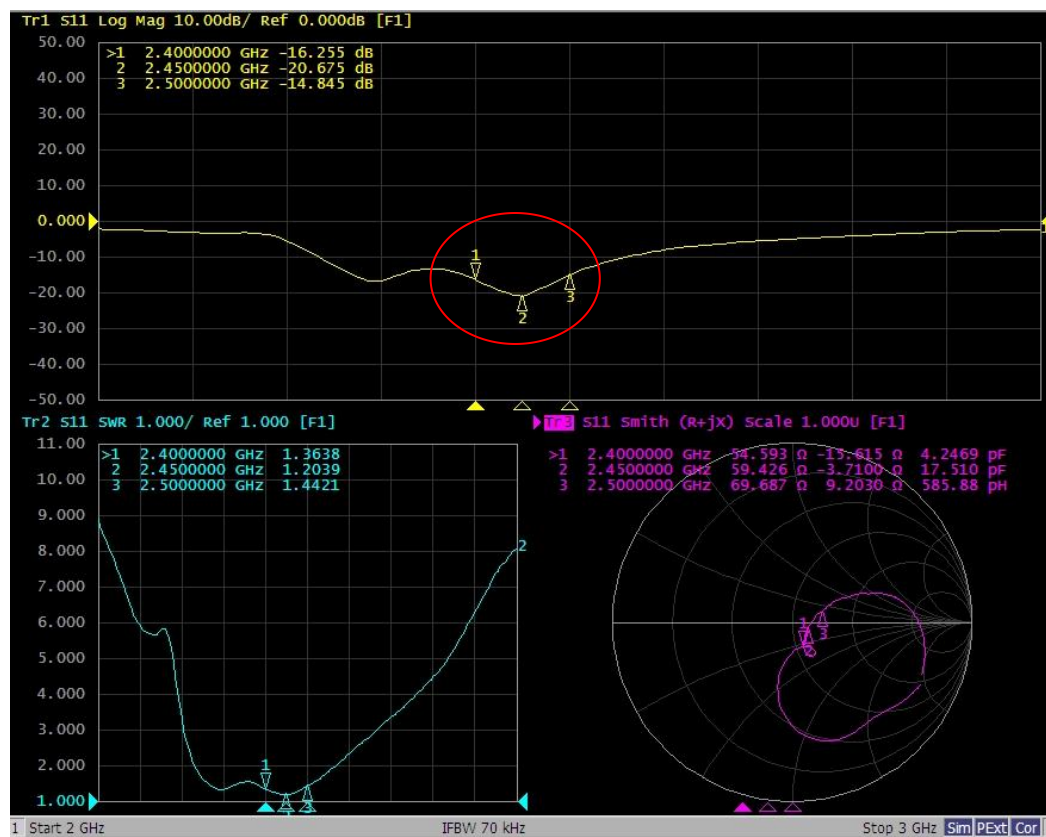
Antenna Name	BL-M9380BT1 Onboard ANT
Frequency	2400~2500MHz
Module Name	BL-M9380BT1
VSWR	≤2
Return loss	≤-8dB
Radiation	Omni-directional
Gain (peak)	2dBi
Polarization	Linear
Admitted Power	2W
Connector	NI
Efficiency	50%~60%
Cable	NI

2. Mechanical Specifications



Antenna onboard design, and size: 12*5.2mm

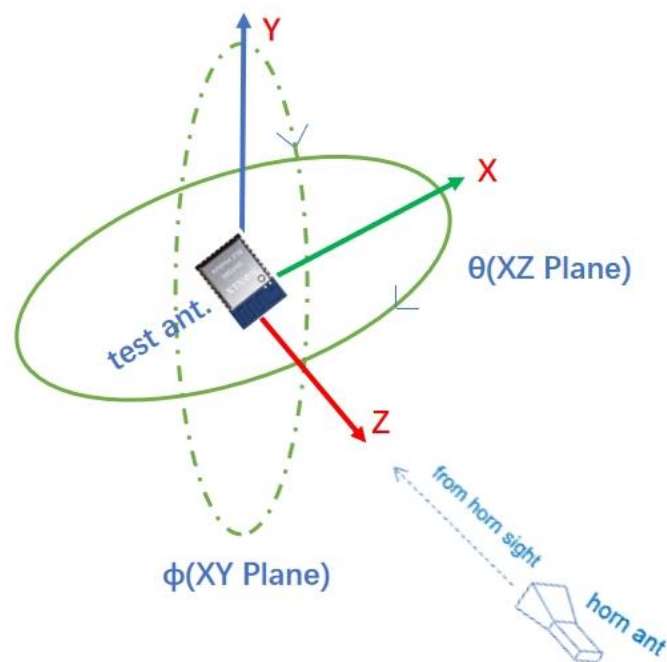
3. S-parameter



Return loss: < -8dB

VSWR: < 2

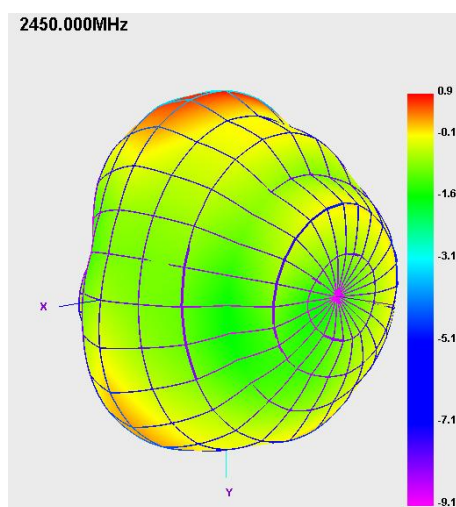
4. Radiation parameter



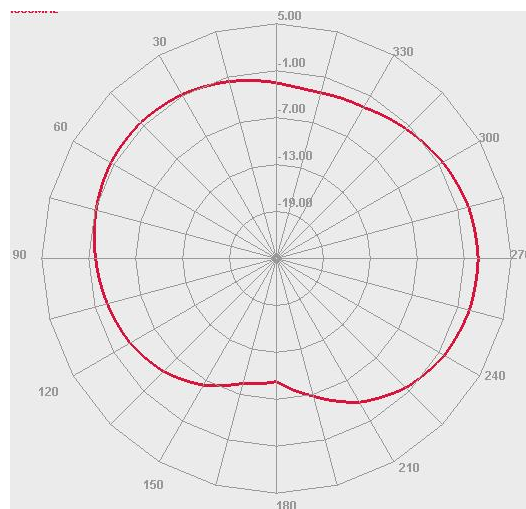
4.1 Gain and efficiency

Frequency	Gain	efficiency
2400~2500MHz	0~2dBi	50%~60%

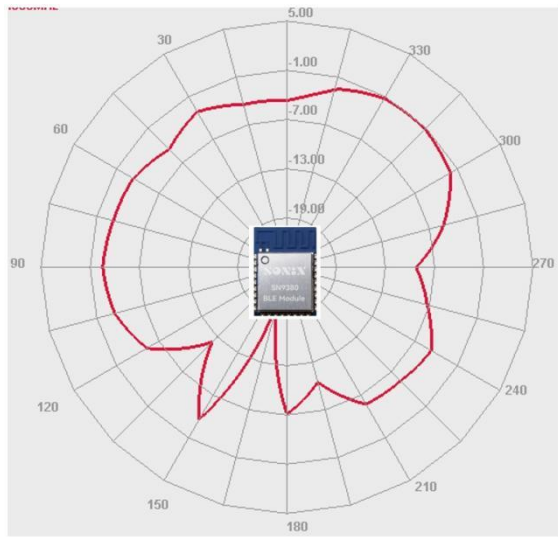
4.2 2.45GHz Radiation Pattern



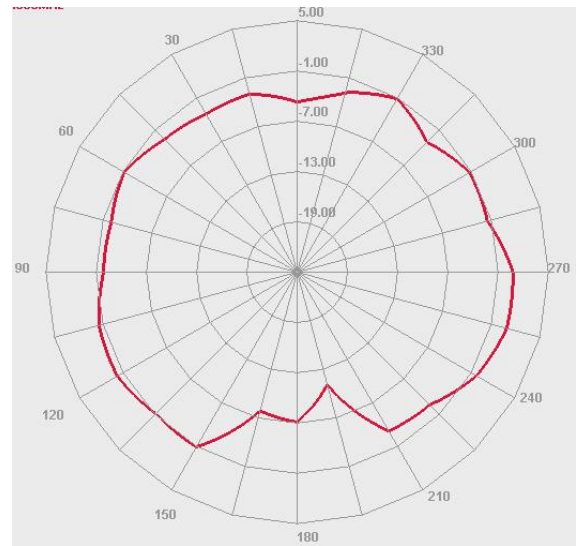
3D radiation



XY plane



XZ plane



YZ plane