

Antenna

YEIN002AA Datasheet

Antenna Services

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About the Document

Revision History

Version	Date	Author	Note
-	2024-04-16	Aria CHU	Creation of the document
0.1	2024-04-16	Aria CHU	First official release

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1 Product Description

This Quectel external LPWA antenna covers main LPWA bands and is compatible with 3G/2G bands as well. The external antenna is barely influenced by the internal environment of devices, giving a better performance in efficiency, radiation, gain whilst providing an optimized solution for a customer product. Quectel also offers flexible installation with custom cable length and connector options.

2 Product Features

- Cellular 863–928 MHz
- High efficiency
- Excellent performance

3 Product Specifications

Passive Electrical Specifications

Frequency Range	863–928 MHz
Input Impedance	50 Ω
VSWR	≤ 2.0
Gain	≤ 2.5 dBi
Polarization Type	Linear
Antenna Type	Dipole

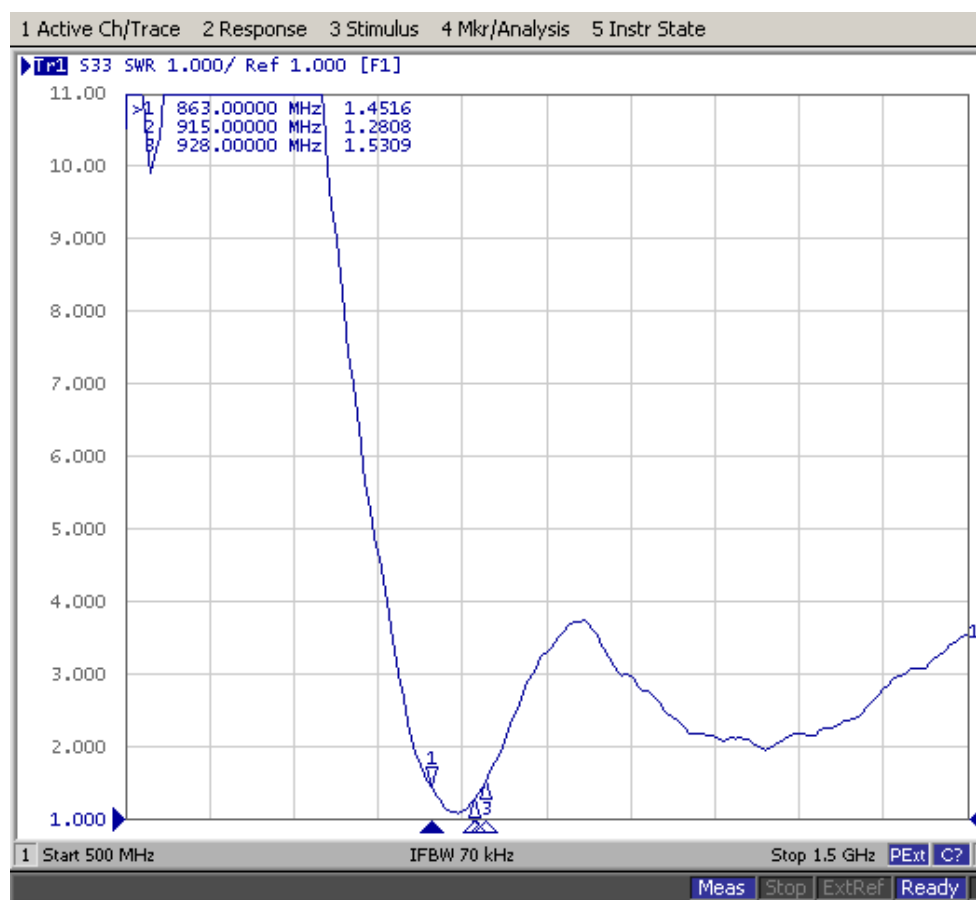
Mechanical Specifications

Antenna Size	$\varnothing 13$ mm $\times$ 195 mm
Casing	TPEE
Connector Type	SMA Male (Center Pin)
Working Temperature	-40 °C to +85 °C
Storage Temperature	-40 °C to +85 °C
Radome Color	Black

4.1. Test Environment

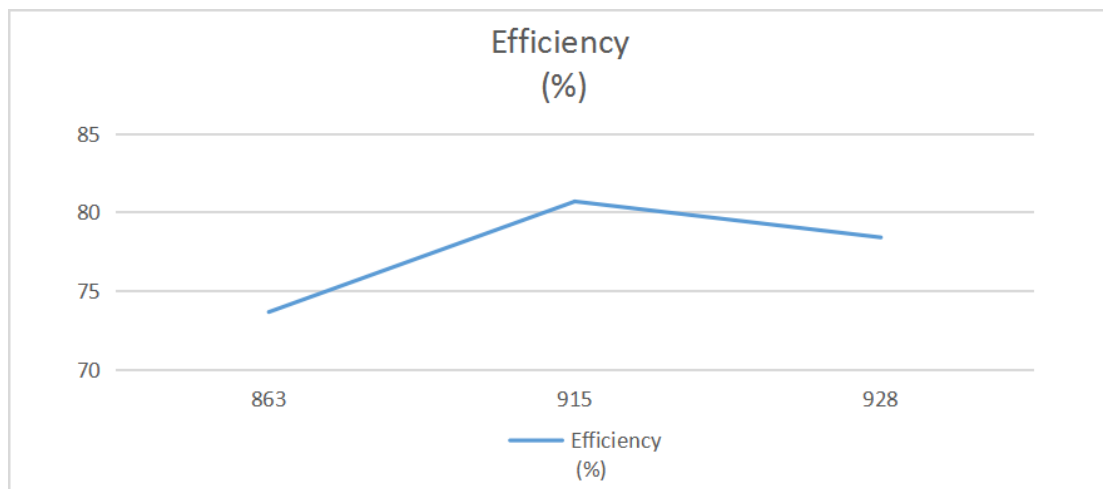
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4.2. VSWR



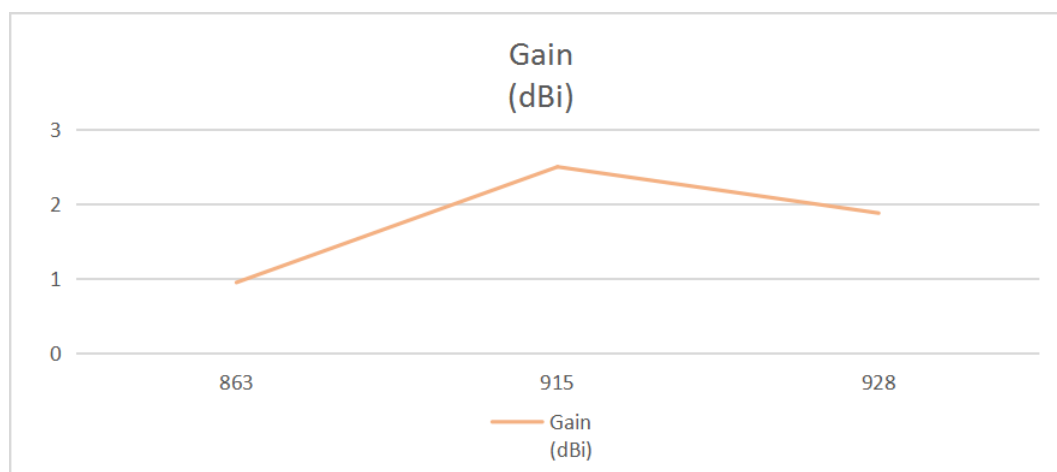
Frequency (MHz)	863	915	928
VSWR	1.45	1.28	1.53

4.3. Efficiency



Frequency (MHz)	863	915	928
Efficiency (%)	73.66	80.7	78.41

4.4. Gain

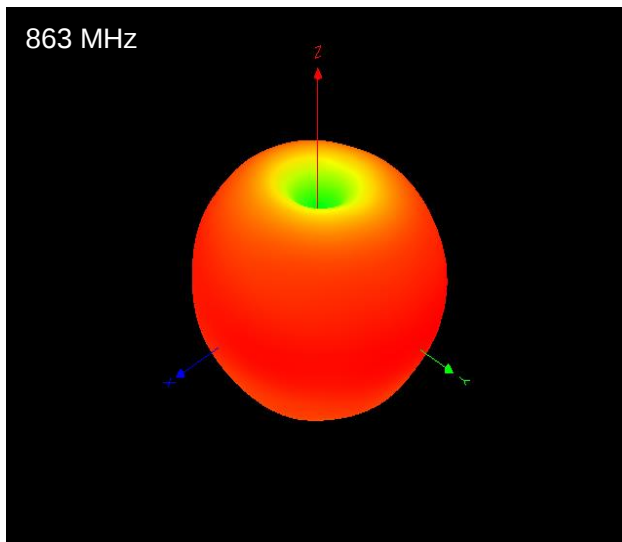


Frequency (MHz)	863	915	928
Gain (dBi)	0.95	2.5	1.88

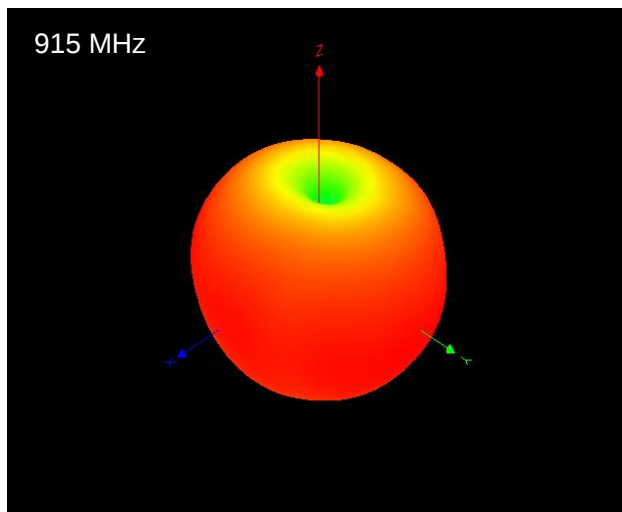
4.5. Radiation Pattern

- Test condition: free space.

863 MHz



915 MHz



928 MHz

