

# Antenna YEIN002AA Datasheet

### **Antenna Services**

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# **About the Document**

# **Revision History**

Version	Date	Author	Note
-	2021-12-20	Kenny YIN/	Creation of the document
		Jan GAO Kenny YIN/	
1.0	2022-01-14	Jan GAO	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.

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### 2 Product Features

J Cellula	r 863-	928	MHz
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- ☐ High efficiency
- □ Excellent performance



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# **3 Product Specifications**

Passive Electrical Specifications		
Frequency Range	863–928 MHz	
Input Impendence	50 Ω	
VSWR	≤ 2.0	
Polarization Type	Linear	
Mechanical Specifications		
Antenna Size	Ø 13 mm × 195 mm	
Casing	TPEE	
Connector Type	RP-SMA Male (Center hole)	
Working Temperature	-40 °C to +85 °C	
Radome Color	Black	

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## **4 Overall Performance**

## 4.1. Test Environment

- ☐ KEYSIGHT ENA Network Analyzer E5063A 100 kHz 8.5 GHz
- ☐ RayZone® 2800 Chamber 5G (FR1) SISO/MIMO, 600 MHz 8.5 GHz



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### 4.2. **VSWR**

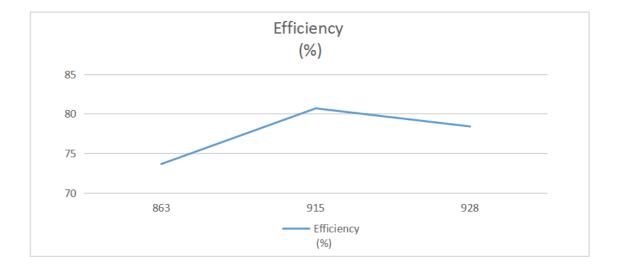


Frequency (MHz)	863	915	928
VSWR	1.45	1.28	1.53

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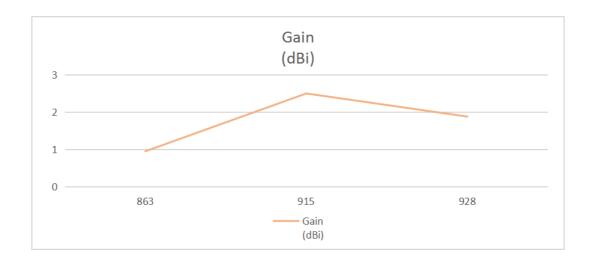


# 4.3. Efficiency



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

## 4.4. Gain



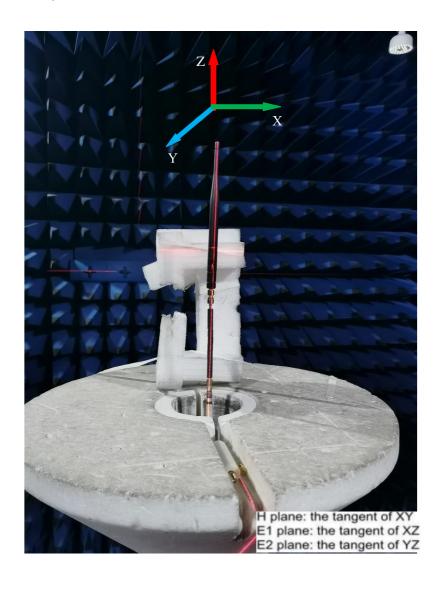
Frequency (MHz)	863	915	928
Gain (dBi)	0.95	2.5	1.88

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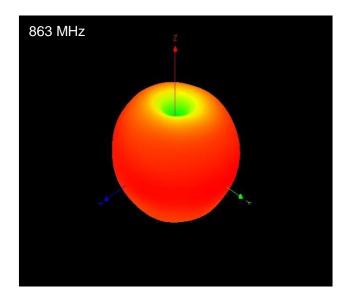
## 4.5. Radiation Pattern

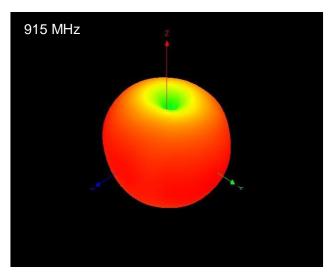
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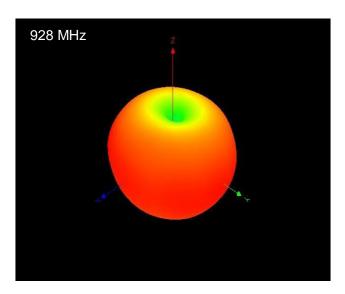


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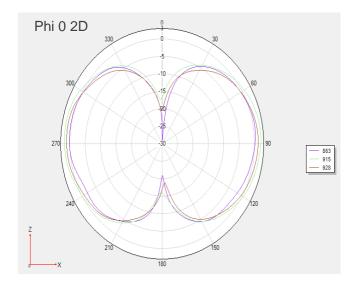


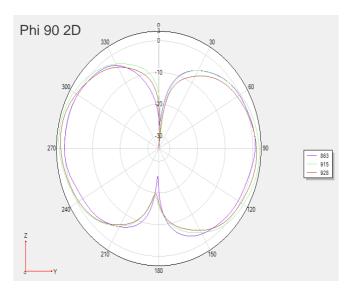


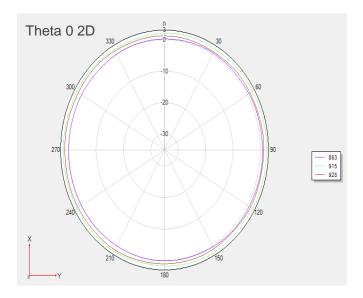


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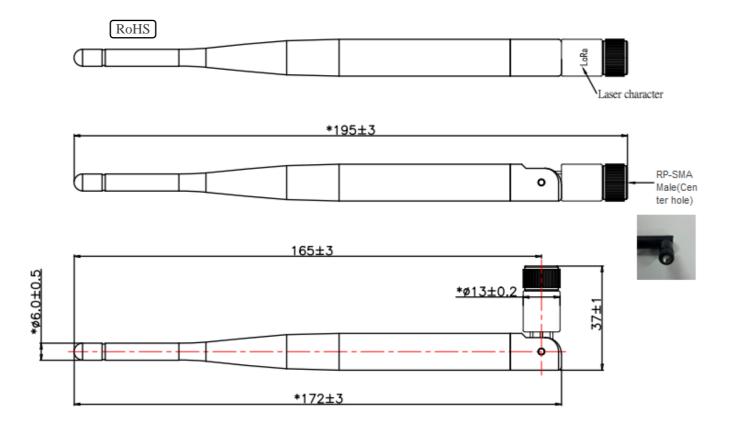




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## 5 Product Size



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