

Antenna YEIN002AA Datasheet

Antenna Services

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About the Document

Revision History

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

2 Product Features

- Cellular 863–928 MHz
- 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	
Gain	≤ 3 dBi	
Polarization Type	Linear	
Mechanical Specifications		
Antenna Size	Ø 13 mm × 195 mm	
Casing	TPEE	
Connector Type	SMA Male (Center Pin)	
Working Temperature	-40 °C to +85 °C	
Radome Color	Black	

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4 Overall Performance

4.1. Test Environment

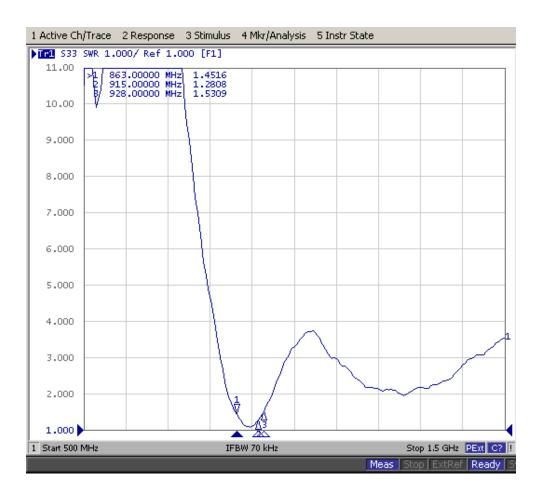
- KEYSIGHT ENA Network Analyzer E5063A 100 kHz 8.5 GHz
- RayZone® 2800 Chamber 5G (FR1) SISO/MIMO, 600 MHz 8.5 GHz



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4.2. **VSWR**

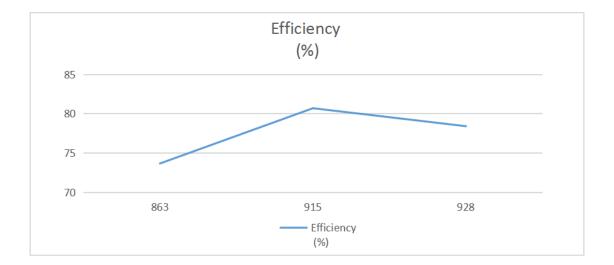


Frequency (MHz)	863	915	928
VSWR	1.45	1.28	1.53

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4.3. Efficiency



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

4.4. Gain



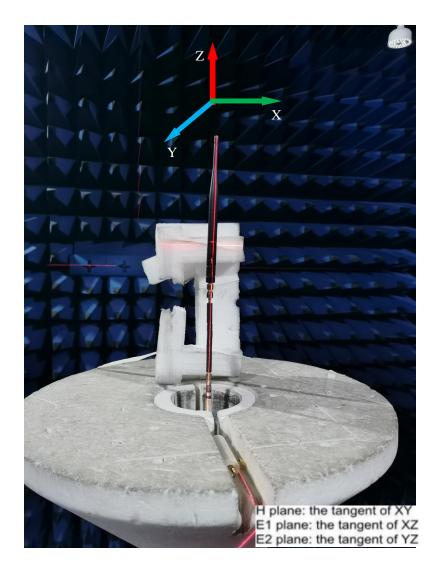
Frequency (MHz)	863	915	928
Gain (dBi)	0.95	2.5	1.88

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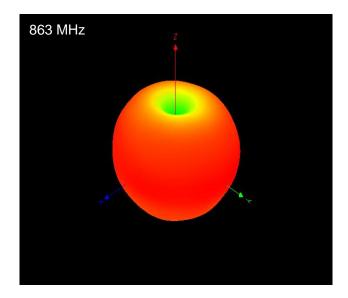
4.5. Radiation Pattern

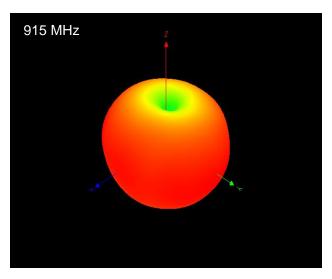
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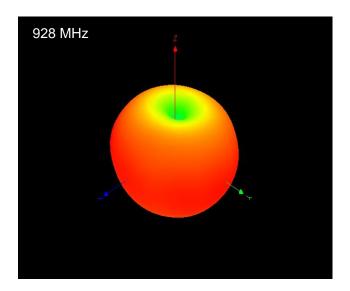


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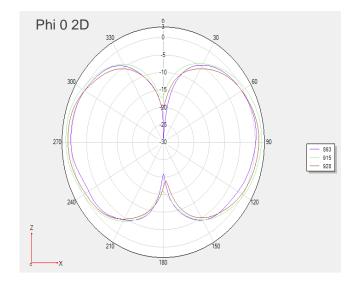


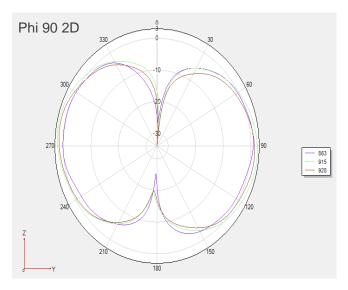


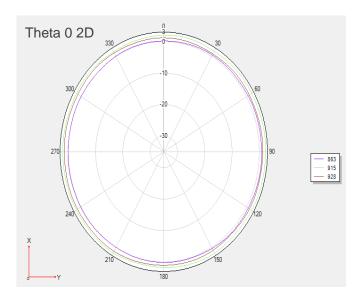


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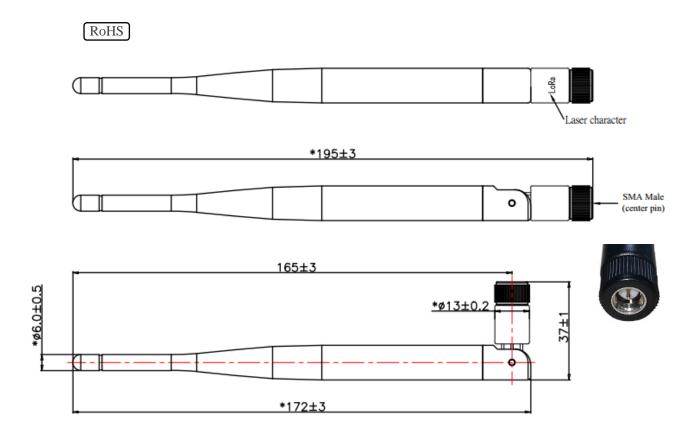




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5 Product Size



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