

Antenna Datasheet

Product OC: YEMJ294JPAM

Version: 1.1

Date: 2026-04-22

Status: Released

Product Name: 5G 2in1 Screw Mount Combo External Antenna

Key Features:

Frequency Band: 617–5950 MHz

Dimensions: Φ 256 mm $\times$ 18 mm

RoHS and REACH Compliant

Overview

The Quectel YEMJ294JPAM is a low-profile, high-performance Omni Ceiling Antenna designed for comprehensive indoor wireless coverage. Its standout feature is an exceptionally wide frequency range from 617 MHz to 5950 MHz, providing support for a vast array of cellular and IoT applications, including LTE bands, 5G NR, GPS, and Wi-Fi. This makes it a versatile, all-in-one solution for modern in-building distribution systems. The antenna delivers a consistent 360-degree horizontal beamwidth, ensuring uniform signal distribution in office environments, hotels, shopping malls, and other indoor spaces.

Engineered for discreet and easy deployment, the antenna features a compact, circular design (Φ 256 mm $\times$ 18 mm) in a white ABS housing, allowing it to blend seamlessly into ceiling tiles. It offers flexible connector options (N-type or 4.3-10 Female) and is designed for simple thru-hole ceiling mounting. With a robust operational temperature range of -40 °C to +60 °C and compliance with RoHS and REACH standards, the YEMJ294JPAM is built for long-term reliability. Its combination of wideband performance, omnidirectional coverage, and aesthetic design makes it an ideal choice for enhancing indoor connectivity without compromising on installation flexibility or visual appeal.

Quectel provides comprehensive antenna design support such as simulation, testing and manufacturing for custom antenna solutions to meet your specific application needs. We have regional R & D centers to offer quick response to meet your requirements. Please contact our sales & FAEs if you have any requests.

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1 Specification

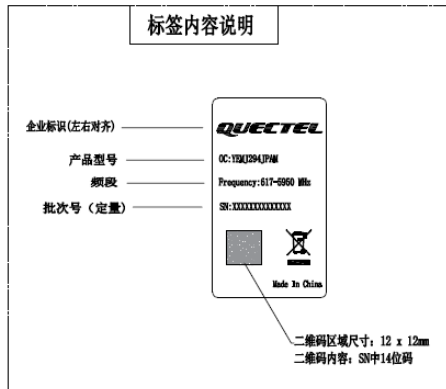
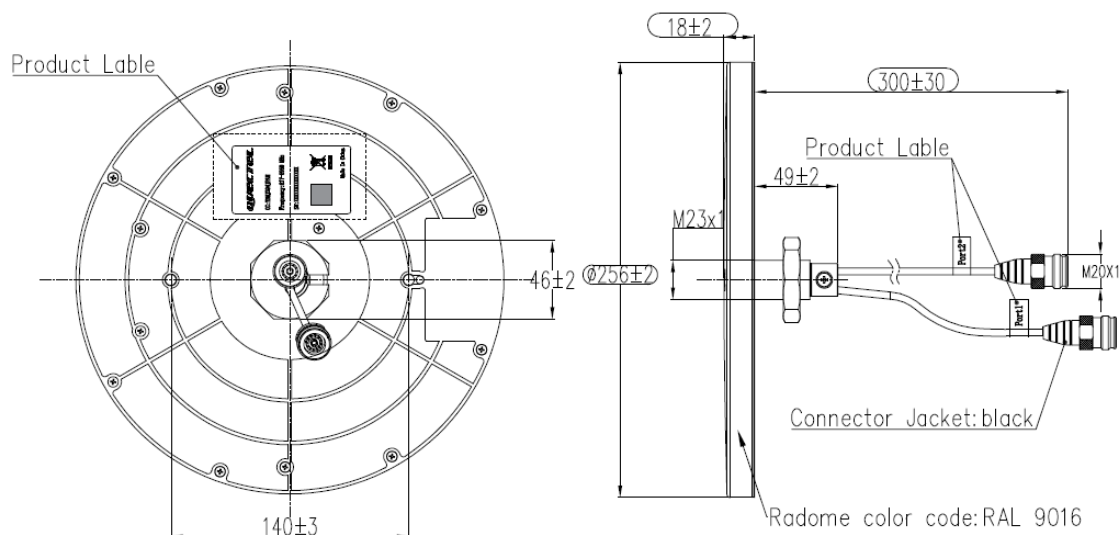
1.1. Electrical

Electrical						
Frequency Band (MHz)	617–698	698–960	1420–1520	1695–2690	3300–4200	4800–5950
Horizontal Beamwidth (Degree)	360					
Gain (dBi)	3.4	3.8	4.0	4.5	6.5	5.5
VSWR	≤ 1.8					
Isolation (dB)	16	16	18	20	30	30
PIM 3rd @ 2 × 43 (dBm, dBc)	-153, tested @ 900 MHz / 1800 MHz and 3500 MHz					
Impedance (Ohm)	50					
Polarization	Linear, H					
Maximum Input power (Watt)	50					

1.2. Mechanical & Environmental

Mechanical	
Antenna Dimensions	Φ 256 mm × 18 mm
Material & Color	ABS & White
Connector Type	4.3-10 Female
Weight	0.52 kg
Mounting Type	Thru-hole ceiling mount
Environmental	
Operation Temperature	-40 °C to +60 °C
Storage Temperature	-40 °C to +60 °C
RoHS & REACH Compliant	Yes

2 Drawing



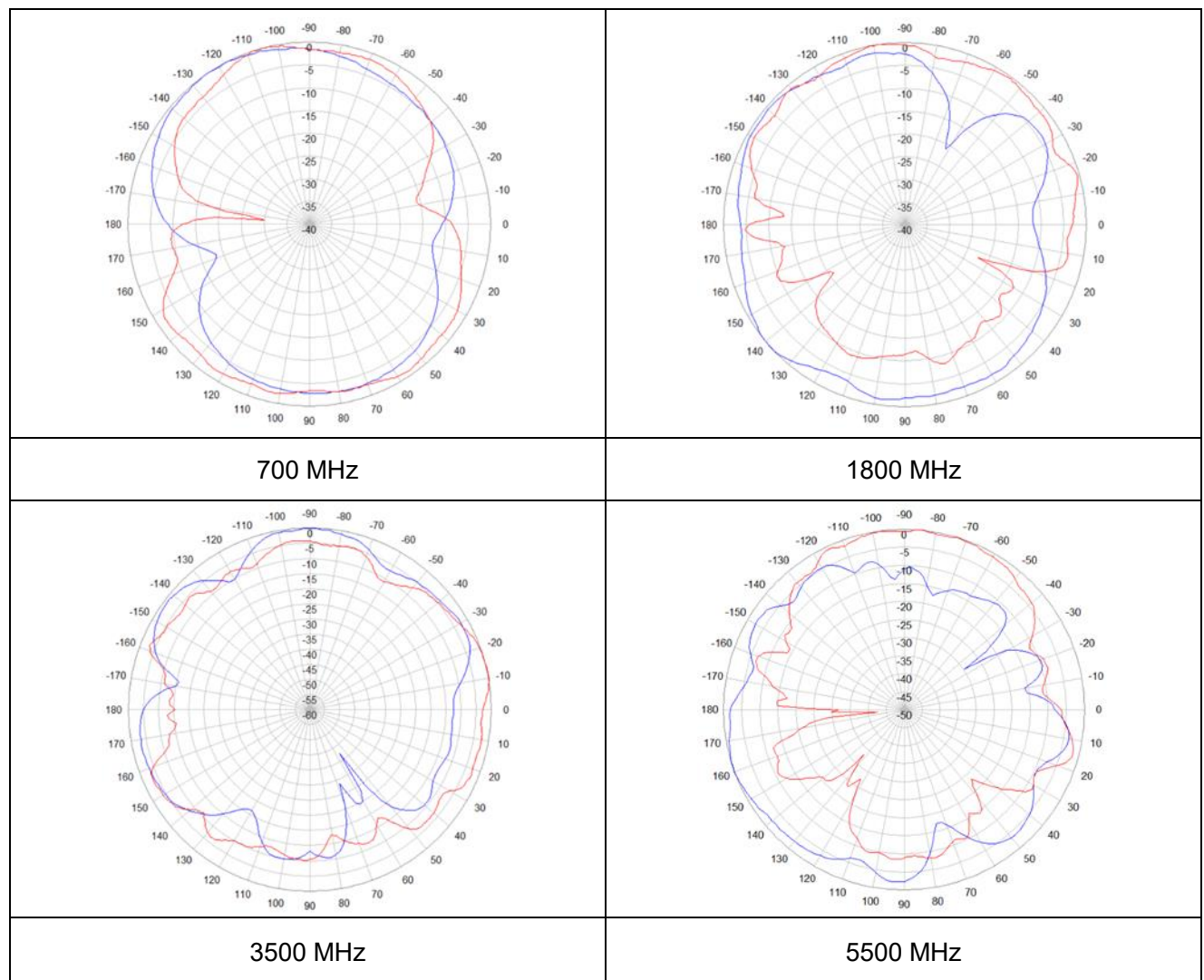
Note: This antenna is not suitable for installing on metal ceiling.

3 Detailed Performance

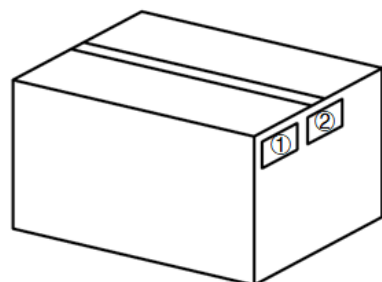
2D Radiation Pattern

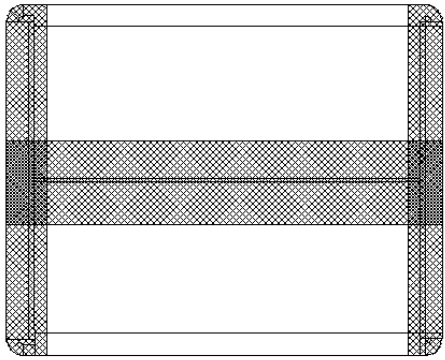
Horizontal

Vertical



4 Packaging

Step	Packaging Picture / 2D Picture	Description
1		Product drawing
2		1 antenna product in an inner box. (1 Antenna / Inner Box)
3		(32 Inner Boxes / Carton Box) (32 Antennas / Carton Box) Estimated quantity Products that cannot fill the entire carton box are packed in a suitable size carton box. <u>Carton Size:</u> <u>L × W × H = 1110 × 820 × 550 mm</u>
4		Position for Attaching Labels ① Carton Label ② Quality Label

5		Sealing Cartons H-shaped sealing cartons
Note	The initial packaging method described above is for reference only, and the final actual packaging method shall be subject to the actual shipping packaging.	

Contact Us

At Quectel, our aim is to provide timely and comprehensive services to our customers. If you require any assistance, please contact our headquarters:

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Or our local offices. For more information, please visit:

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Revision History

Version	Date	Author	Note
-	2025-10-30	Ryder Zhang/ Mike Guo/ Riva Ren/ Aria Chu	Creation of the document
1.0	2025-10-30	Ryder Zhang/ Mike Guo/ Riva Ren/ Aria Chu	First official release
1.1	2026-04-22	Mike Guo/ Kessie Geng	1. Updated the connector description (Chapter 1.2). 2. Updated the drawing (Chapter 2). 3. Updated the packaging (Chapter 4).



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