



Antenna Datasheet

Product OC: YEMG298WBAM

Version: 1.1

Date: 2026-04-22

Status: Released

Product Name: Wi-Fi 2in1 Pole Mount Combo External Antenna

Key Features:

Frequency Band: 2400–2483 MHz, 5150–5850 MHz

Dimensions: 270 mm × 270 mm × 43.41 mm

RoHS Compliant

Overview

The Quectel YEMG298WBAM is a high-performance dual-band panel antenna engineered for robust wireless applications in both the 2.4 GHz (2400–2483 MHz) and 5.8 GHz (5150–5850 MHz) frequency bands. This antenna is an ideal solution for demanding point-to-point (PTP) and point-to-multipoint (PMP) communications, delivering a substantial gain of 11 dBi at 2.4 GHz and 15 dBi at 5.8 GHz. Its focused beam, with a 3dB beam-width of 45 °(H)/45 °(E) in the lower band and a tighter 23 °(H)/23 °(E) in the upper band, ensures efficient signal concentration and excellent interference rejection, further enhanced by a front-to-back ratio greater than 20 dB.

Built for durability and long-term operation, the antenna features a ABS radome and is designed to withstand harsh environmental conditions, with an operational temperature range of -40 °C to +65 °C and a rated wind velocity of 216 km/h. Mechanically, it offers versatile mounting on masts with a diameter of Φ 40- Φ 60 mm and is equipped with dual N-type female connectors, supporting dual polarization. With its RoHS-compliant construction and high power handling capability of up to 100W, the YEMG298WBAM is a reliable and powerful choice for critical infrastructure in industrial, enterprise, and outdoor wireless systems.

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

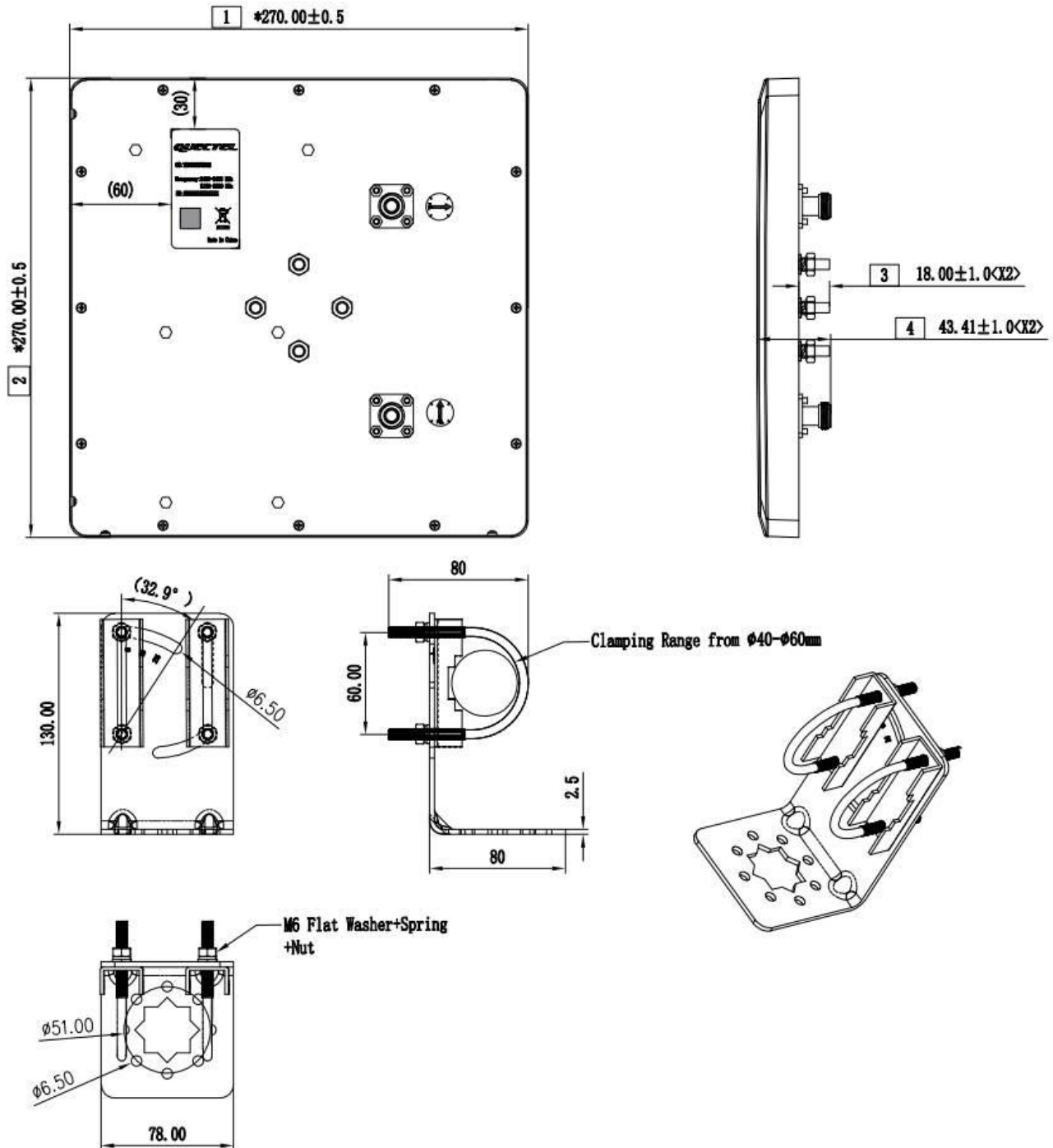
1.1. Electrical

Electrical		
Frequency Band	2400–2483 MHz	5150–5850 MHz
Gain	11 dBi	15 dBi
VSWR	≤ 2.0	≤ 2.5
3dB Beam-Width	2.4 GHz 45 °(H)/45 °(E) 5 GHz 23 °(H)/23 °(E)	
Polarization	Vertical & Horizontal	
Front to Back Ratio	> 20 dB	
Maximum Input Power	10 Watt	
Input Impedance	50 Ω	
Lightning Protection	DC Grounded	

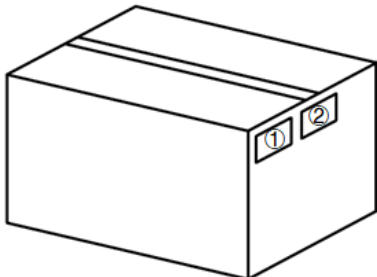
1.2. Mechanical & Environmental

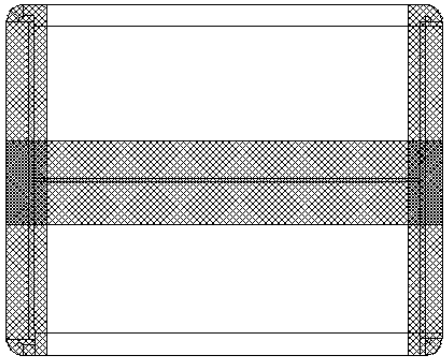
Mechanical	
Connector	2 × N Female
Antenna Dimension	270 mm × 270 mm × 43.41 mm
Weight	1.3 kg
Radome Material	ABS
Mounting Mast Diameter	Φ 40 mm-Φ 60 mm
Environmental	
Operation Temperature	-40 °C to +65 °C
Rated Wind Velocity	216 km/h
RoHS Compliant	Yes

2 Drawing



3 Packaging

Step	Packaging Picture / 2D Picture	Description
1		Product drawing
2		1 antenna products in a PE bag. Then place it in the inner box. (2 antenna products / Inner Box)
3		(5 Inner Boxes / Carton Box) (10 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 = 530 × 310 × 300 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:

<https://www.quectel.com/contact/>.

For technical support, or to report documentation errors, please visit:

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Revision History

Version	Date	Author	Note
-	2025-10-30	Ryder Zhang/ Singh Wang/ Riva Ren/ Aria Chu	Creation of the document
1.0	2025-10-30	Ryder Zhang/ Singh Wang/ Riva Ren/ Aria Chu	First official release
1.1	2026-04-22	Singh Wang/ Rader Zhang/ Kessie Geng	1. Updated the data (Overview, Chapter 1.1, 1.2 and 2). 2. Updated the packaging (Chapter 3).



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