



Antenna Datasheet

Product OC: YEMG496KPAM

Version: 1.0

Date: 2026-01-15

Status: Released

Product Name: 5G 4in1 Wall & Pole Mount Combo Directional Antenna

Key Features:

Frequency Band: 617–4200 MHz

Dimensions: 590 mm × 419 mm × 143 mm

RoHS and REACH Compliant

Overview

The Quectel YEMG496KPAM is a versatile 4 × 4 MIMO directional antenna designed to deliver robust performance across an exceptionally wide frequency range from 617 MHz to 4200 MHz. This comprehensive coverage supports a multitude of wireless technologies, including LTE, 5G, IoT, and public safety bands, making it an ideal solution for applications requiring reliable, high-capacity connectivity. With its compact form factor (590 mm × 419 mm × 143 mm), the antenna is perfectly suited for both wall and pole mounting in space-constrained environments.

Engineered for high-efficiency MIMO operation, the antenna features $\pm 45^\circ$ polarization and maintains a stable average gain of 7.3 to 8.2 dBi across all supported bands. Its directional beam pattern, with horizontal beamwidths from 58° to 82° , provides focused coverage, while key electrical specifications such as strong port isolation (22 dB) and excellent PIM performance (-153 dBc) ensure high signal integrity and minimal interference. The robust grey UPVC housing ensures durability for both indoor and outdoor use, with an operational temperature range of -30°C to $+60^\circ\text{C}$. As a RoHS and REACH compliant solution from Quectel, the YEMG496KPAM offers the flexibility, performance, and reliability needed for modern multi-band, high-data-rate wireless deployments.

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.

Contents

Overview	1
Contents	2
1 Specification	3
1.1. Electrical.....	3
1.2. Mechanical & Environmental	4
2 Drawing	5
3 Detailed Performance	7
4 Packaging	8
Contact Us	10
Legal Notices	11
Revision History	13

1 Specification

1.1. Electrical

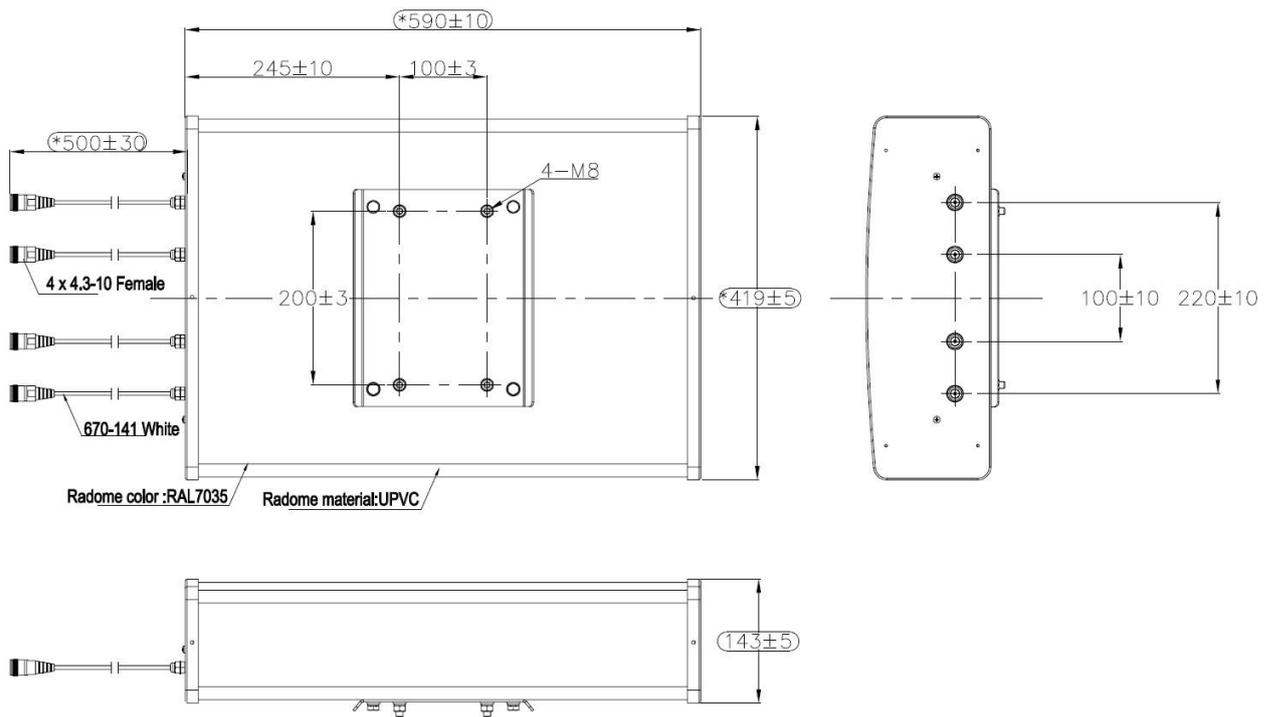
Electrical					
Frequency Band, MHz	617–800	800–960	1695–2180	2181–2700	3300–4200
Horizontal beamwidth, degrees	82	76	65	60	58
Vertical beamwidth, degrees	78	68	56	51	50
Gain, Ave., dBi	7.3	7.5	7.6	8.2	7.3
Isolation, dB	22				
F/B Ratio, dB	20		16		15
VSWR	1.5 (typical) / 1.7 (worst case)				
Maxim Input Power, Watts	200		150		100
3rdPIM, @ 2*20 W, dBc	-153, tested at 900, 1800 and 3500 MHz				
Impedance, Ohm	50				
Polarization	± 45°				

1.2. Mechanical & Environmental

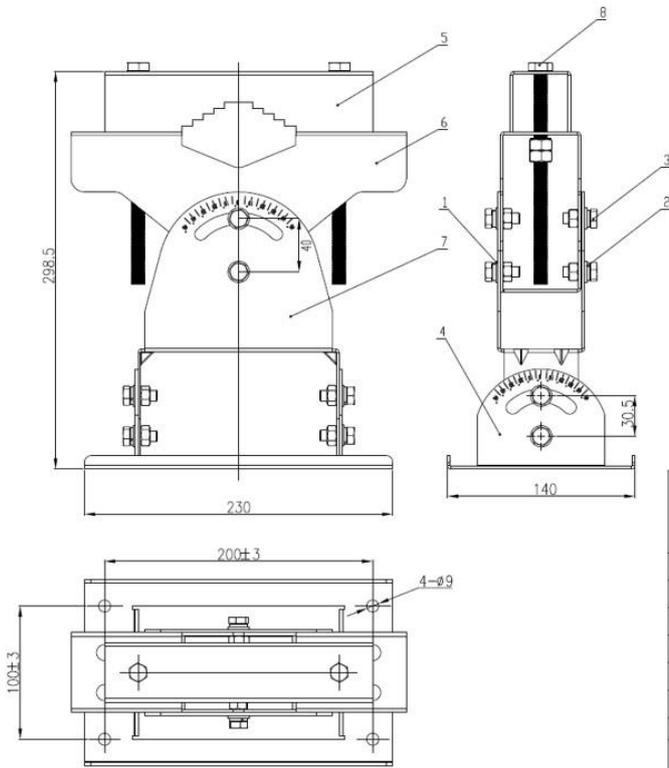
Mechanical	
Antenna Dimensions	590 mm × 419 mm × 143 mm
Material & Color	UPVC & Grey
Connector Type	4.3-10 (f)
Maximum Wind-loading	216 km/h
Net weight	6 kg
Mounting Type	Wall / Pole mount
Environmental	
Operation Temperature	-30 °C to +60 °C
Storage Temperature	-30 °C to +60 °C
Ingress Protection (IP) Rating	Indoor and Outdoor
RoHS & REACH Compliant	Yes

2 Drawing

Finished product drawings



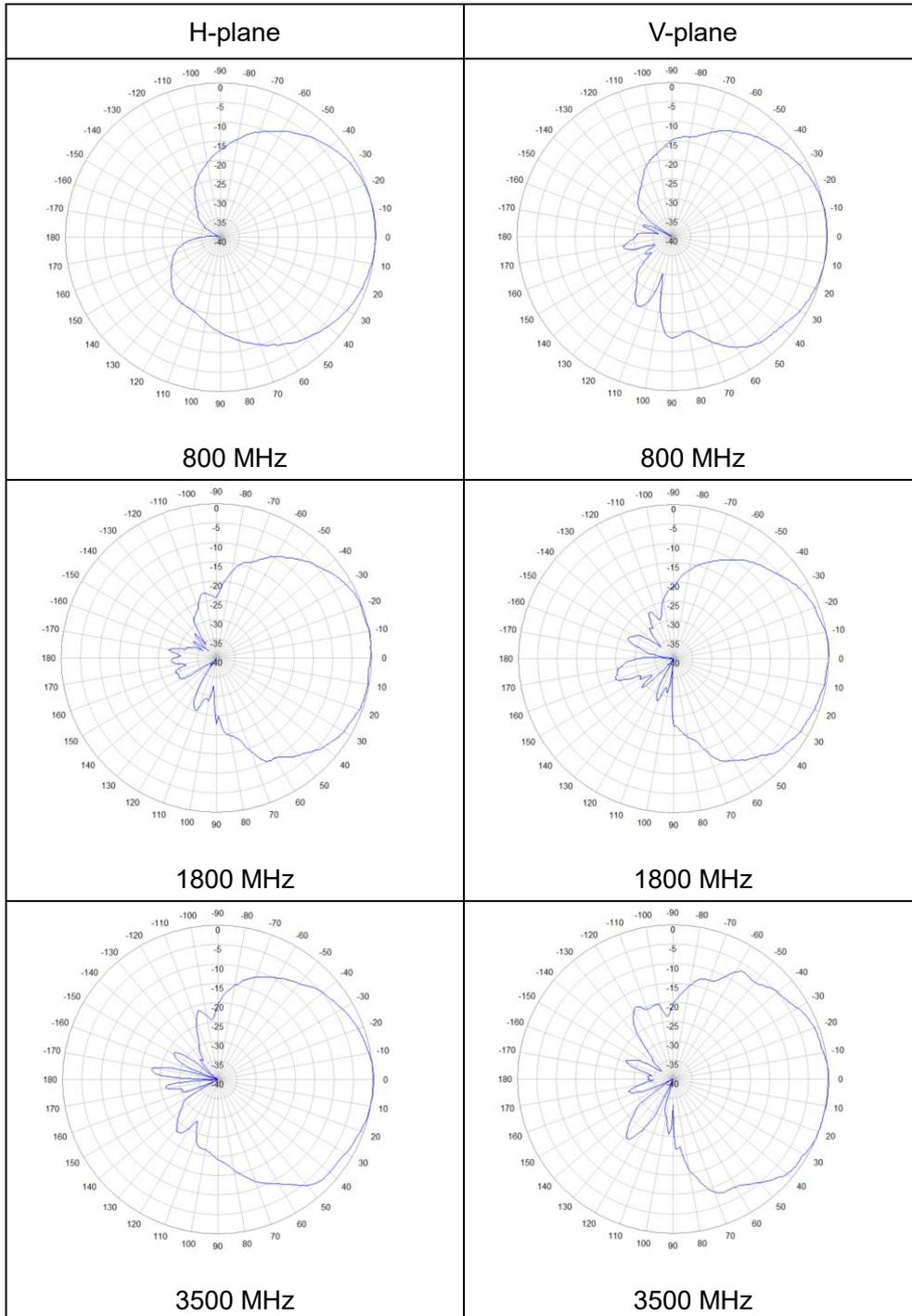
Bracket drawings



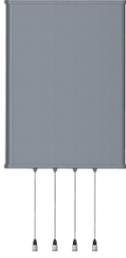
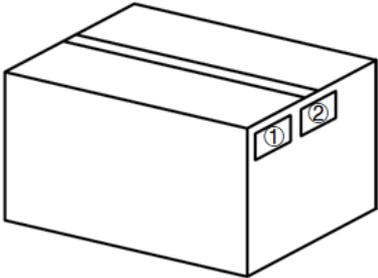
8	J-WJLS0007	M10X160-Bolt	2	304	
	J-WJPD0007	M10-Washer	2	304	
	J-WJLM0007	M10 Nut	4	304	
7	J-BJZJ0040	Bracket-2	1	304	
6	J-BJZJ0041	Bracket-3	1	304	
5	J-BJZJ0042	Bracket-4	1	304	
4	J-BJZJ0039	Bracket-1	1	304	
3	J-WJLS0006	M8X20 Bolt	8	304	
2	J-WJTD0003	M8 Spring Washer	8	304	
1	J-WJPD0003	M8 Washer	8	304	
序号	代号	名称	数量	材料	备注

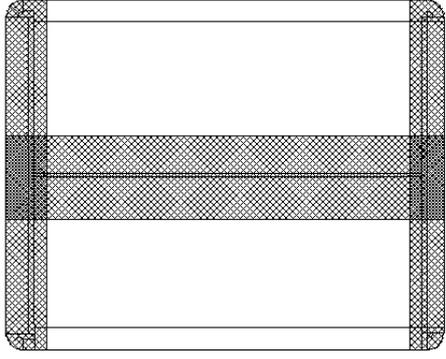
3 Detailed Performance

2D Radiation Pattern



4 Packaging

Step	Packaging Picture / 2D Picture	Description
1		Product drawing
2		<p>Use foam to protect antenna products. (1 Antenna / 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 = 885 × 480 × 240 mm</u></p>
3		<p>Position for Attaching Labels</p> <ul style="list-style-type: none"> ① Carton Label ② Quality Label

4	 A technical drawing of an H-shaped sealing carton. It consists of a central horizontal rectangular section with a cross-hatched texture, flanked by two vertical rectangular sections, also with a cross-hatched texture. The corners of the vertical sections are rounded. The entire structure is shown in a perspective view.	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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<https://www.quectel.com/contact/>.

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Revision History

Version	Date	Author	Note
-	2026-01-15	Ryder Zhang/ Mike Guo/ Riva Ren/ Aria Chu	Creation of the document
1.0	2026-01-15	Ryder Zhang/ Mike Guo/ Riva Ren/ Aria Chu	First official release

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