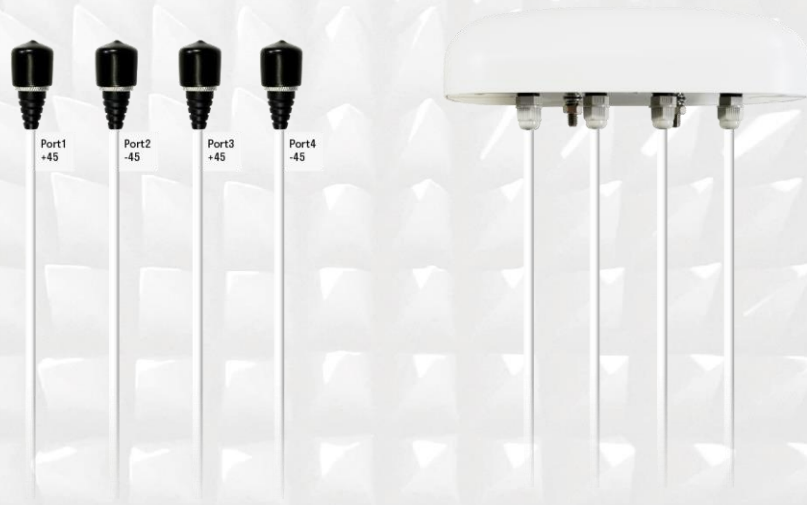




Antenna Datasheet

Product OC: YEMG493KPAM

Version: 1.1

Date: 2026-04-22

Status: Released

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

Key Features:

Frequency Band: 3300–4200 MHz

Dimensions: 210 mm × 210 mm × 48 mm

RoHS and REACH Compliant

Overview

Quectel's YEMG493KPAM is a high-performance 4 x 4 MIMO panel antenna engineered for robust and reliable wireless connectivity in the 3300–4200 MHz frequency band, making it an ideal solution for modern 5G NR and other cellular applications. This antenna is designed to deliver superior electrical performance, featuring an average gain of up to 12 dBi and excellent isolation of 22 dB across its ports to ensure high-quality signal transmission and reception. Its $\pm 45^\circ$ dual-polarization enhances signal diversity and reliability in challenging multipath environments.

Built for durability, the antenna boasts a compact and rugged design with dimensions of 210 mm × 210 mm × 48 mm and a weight of just 1 kg. It is constructed from ASA + PC material in an off-white color and is rated IP65, ensuring complete protection against dust and low-pressure water jets. Capable of operating in temperatures from -40°C to $+60^\circ\text{C}$ and withstanding wind loads up to 216 km/h, it is perfectly suited for both wall and pole mounting in demanding outdoor deployments. Furthermore, the YEMG493KPAM is compliant with RoHS and REACH standards, underscoring Quectel's commitment to environmental responsibility. This combination of advanced features makes it a dependable choice for network operators and integrators seeking to enhance their infrastructure.

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

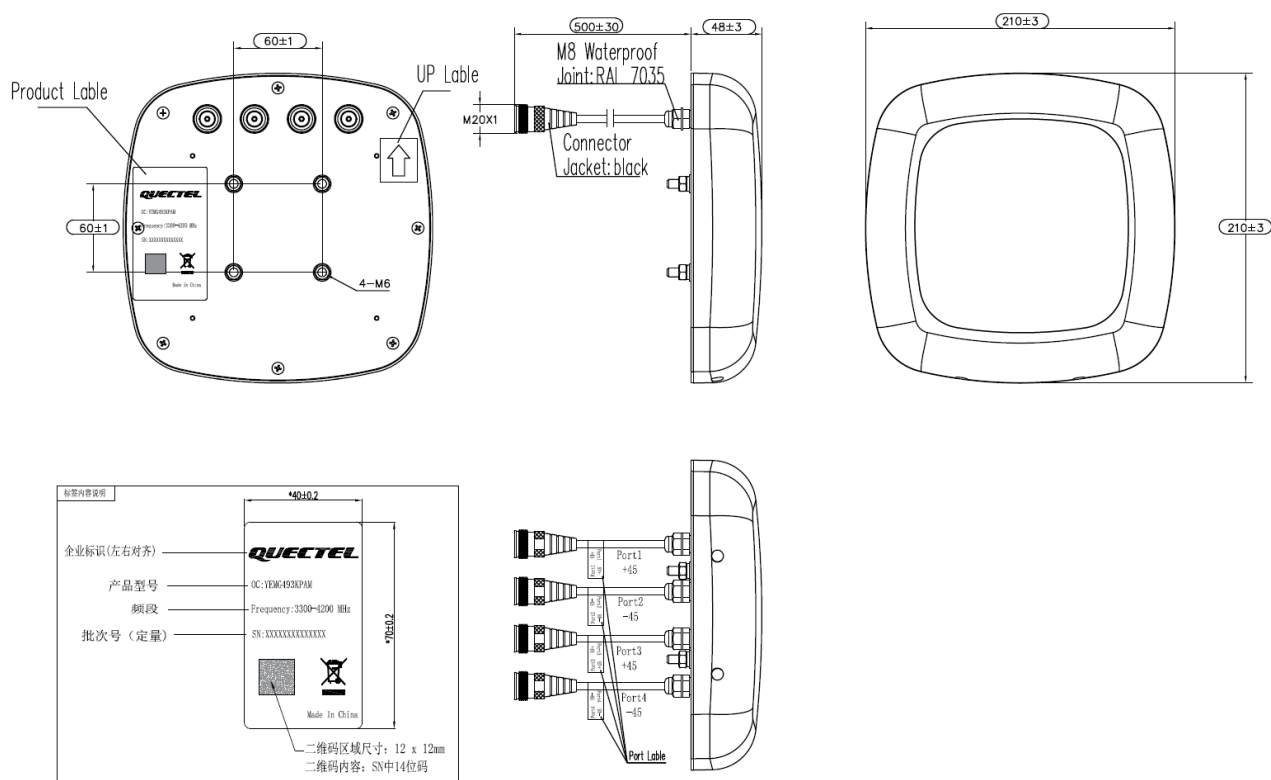
Electrical		
Frequency Band MHz	3300–3800 MHz	3801–4200 MHz
HBW, Ave.	62°	60°
VBW, Ave.	33°	30°
Gain, Ave.	11.5 dBi	12 dBi
F/B ratio @ 180° ± 30°	25 dB	27 dB
Isolation	22 dB	
PIM @ 2*43dBm	-153 dBc	
Maximum input power	100 W	
VSWR	1.5 (typical) / 1.6 (worst case)	
Impedance	50 Ω	
Polarization	±45°	

1.2. Mechanical & Environmental

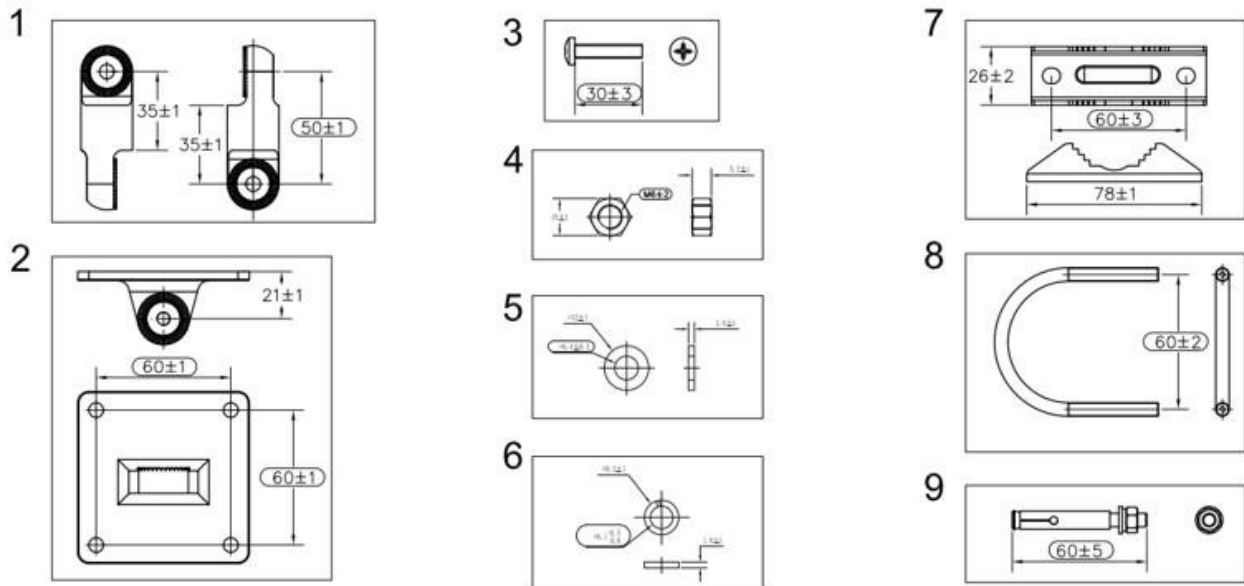
Mechanical	
Antenna Dimensions	210 mm × 210 mm × 48 mm
Material & Color	ASA + PC & Off-white
Number of Ports, all types	4 × 4.3-10 (f)
Maximum Wind-loading	216 km/h
Weight	1 kg
Mounting Type	Wall / Pole mount
Environmental	
Operation Temperature	-40 °C to +60 °C
Storage Temperature	-40 °C to +60 °C
Ingress Protection (IP) Rating	IP65
RoHS & REACH Compliant	Yes

2 Drawing

Finished product drawings



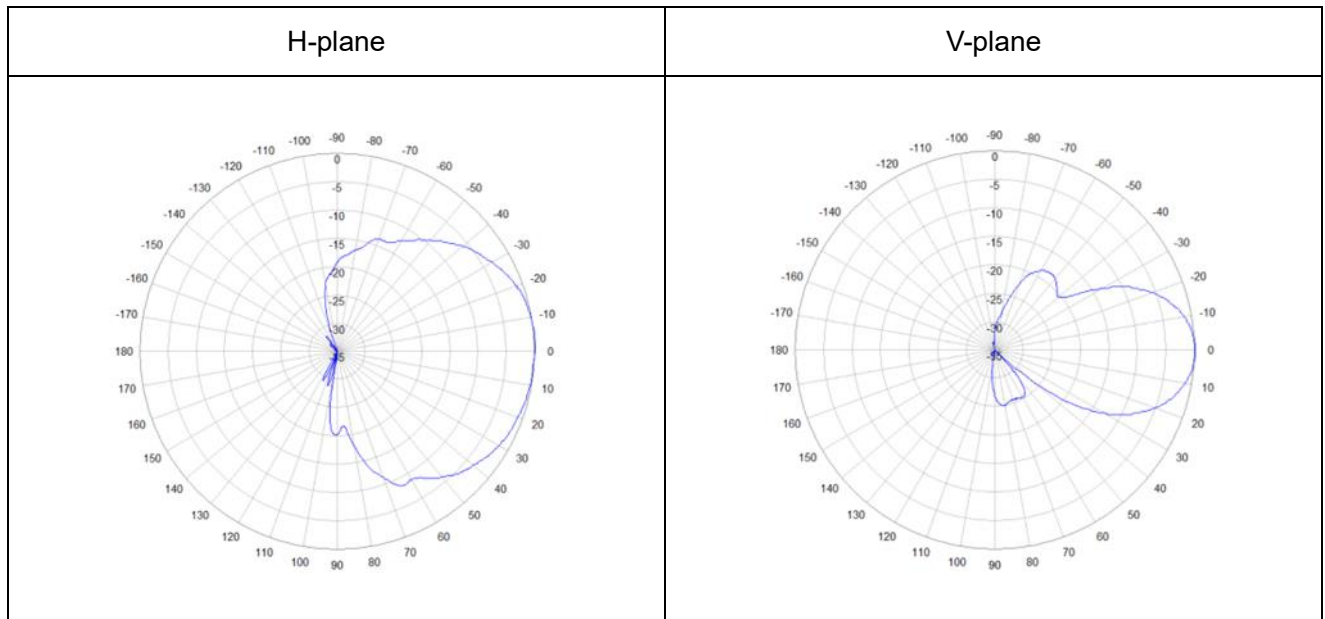
Bracket drawings



CODE	NAME	Specification	Material	Quantity
1	Angle adjusting arm		ADC12	1
2	Mounting plate		ADC12	2
3	Bolts	M6*30	Stainless steel 303/304/316	2
4	Nuts	M6	Stainless steel 303/304/316	4
5	Washers	6	Stainless steel 303/304/316	6
6	Springs	6	Stainless steel 303/304/316	6
7	U-bolt part1		Stainless steel 303/304/316	2
8	U-bolt part2	6	Stainless steel 303/304/316	2
9	Expansion Bolts	M6	Stainless steel 303/304/316	4

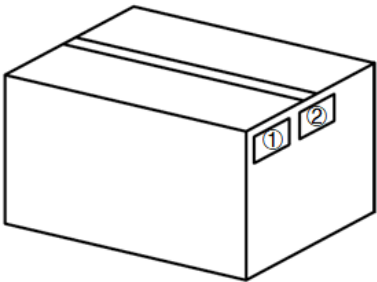
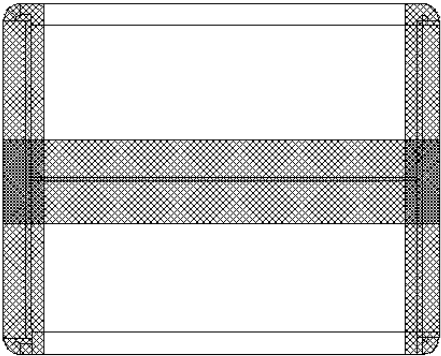
3 Detailed Performance

2D Radiation Pattern



4 Packaging

Step	Packaging Picture / 2D Picture	Description
1		Product drawing
2		1 antenna product in an inner box. (1 Antenna / Inner Box)
3		(12 Inner boxes / Carton Box) (12 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 = 820 × 555 × 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:

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

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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 drawing (Chapter 2). 2. Updated the packaging (Chapter 4).



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