



Antenna Datasheet

Product OC: YEMG492WPAM

Version: 1.0

Date: 2026-01-15

Status: Released

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

Key Features:

Frequency Band: 1695–2690 MHz, 3300–4200 MHz

Dimensions: 595 mm × 419 mm × 143 mm

RoHS and REACH Compliant

Overview

The Quectel YEMG492WPAM is a high-capacity four-port stadium antenna engineered to deliver superior performance in dense, high-traffic environments such as stadiums, arenas, and large public venues. Supporting a wide dual-band frequency range of 1695–2690 MHz and 3300–4200 MHz, this antenna is optimized for modern 4G LTE and 5G networks, ensuring reliable connectivity and enhanced data throughput for thousands of simultaneous users.

Featuring a compact and low-profile design (595 mm × 419 mm × 143 mm), the antenna is easily mounted on walls or poles while maintaining a discreet aesthetic. It delivers consistent gain up to 15.6 dBi with excellent beam shaping, characterized by a balanced 3 dB beamwidth of approximately 30 degrees in both horizontal and vertical planes. Key performance metrics include high isolation (25 dB), strong front-to-back ratio (up to 30 dB), and superior sidelobe suppression, all of which minimize interference and improve signal quality in crowded RF environments.

Built with a durable grey UPVC radome and rated for operation in temperatures from -40 °C to +60 °C, the YEMG492WPAM is suitable for both indoor and outdoor installations. As a RoHS and REACH compliant solution from Quectel, it offers the capacity, reliability, and performance required for next-generation high-density 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.

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1 Specification

1.1. Electrical

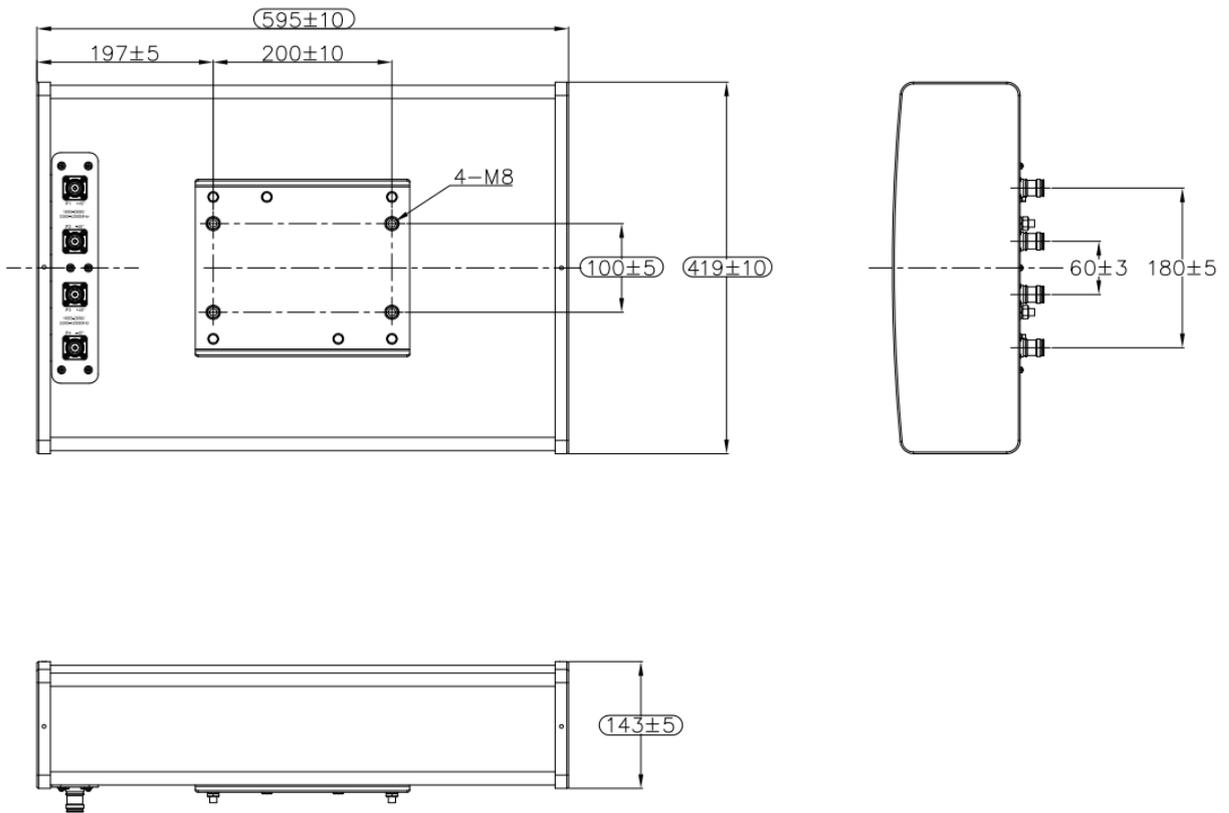
Electrical				
Frequency Range (MHz)	1695–2200	2200–2690	3300–3800	3801–4200
HBW-3dB, Ave., degrees	34.0	26.0	30.0	27.0
VBW-3dB, Ave., degrees	33.0	25.0	31.0	27.0
Gain, Ave., dBi	13.8	14.5	13.3	14.1
Gain, Max., dBi	14.8	15.6	14.1	14.3
Horizontal sidelobes, dB	18 (typical) / 15 (worst case)			
Vertical sidelobes, dB	18 (typical) / 15 (worst case)			
Isolation, dB	25			
F/B Ratio @ boresight, dB	30	25		
VSWR	≤ 1.5			
Maxim Input Power, Watts	150			100
3rd PIM, @ 2*20 W, dBc	-153, tested at 1800 and 3500 MHz			
Input impedance, Ohm	50			
Polarization	±45			

1.2. Mechanical & Environmental

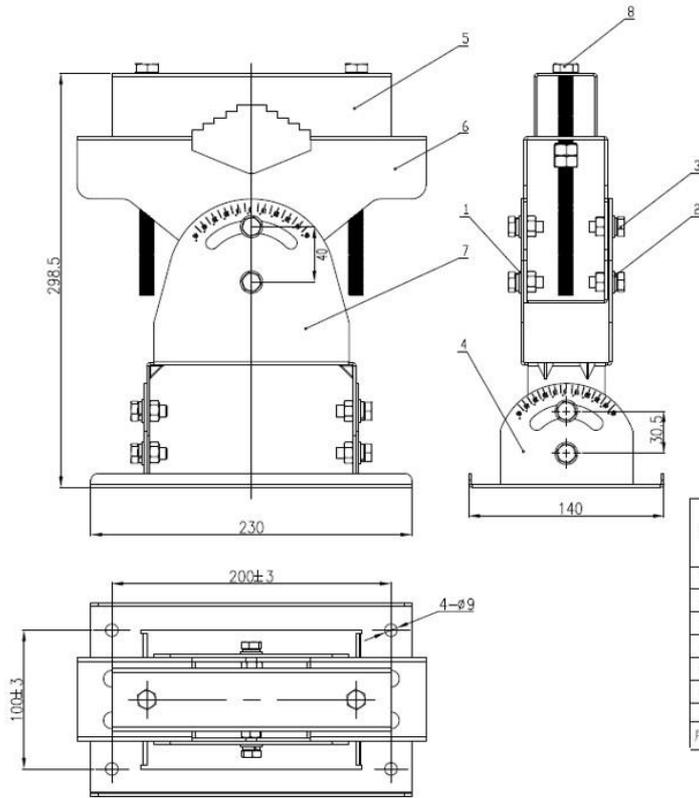
Mechanical	
Antenna Dimensions	595 mm × 419 mm × 143 mm
Material & Color	UPVC & Grey
Connector Type	7/16 DIN (f) and 4.3-10 (f)
Maximum Wind-loading	216 km/h
Net Weight	6.5 kg
Mounting Type	Wall / Pole mount
Environmental	
Operation Temperature	-40 °C to +60 °C
Storage Temperature	-40 °C to +60 °C
Application	Indoor and Outdoor
RoHS & REACH Compliant	Yes

2 Drawing

Finished product drawings



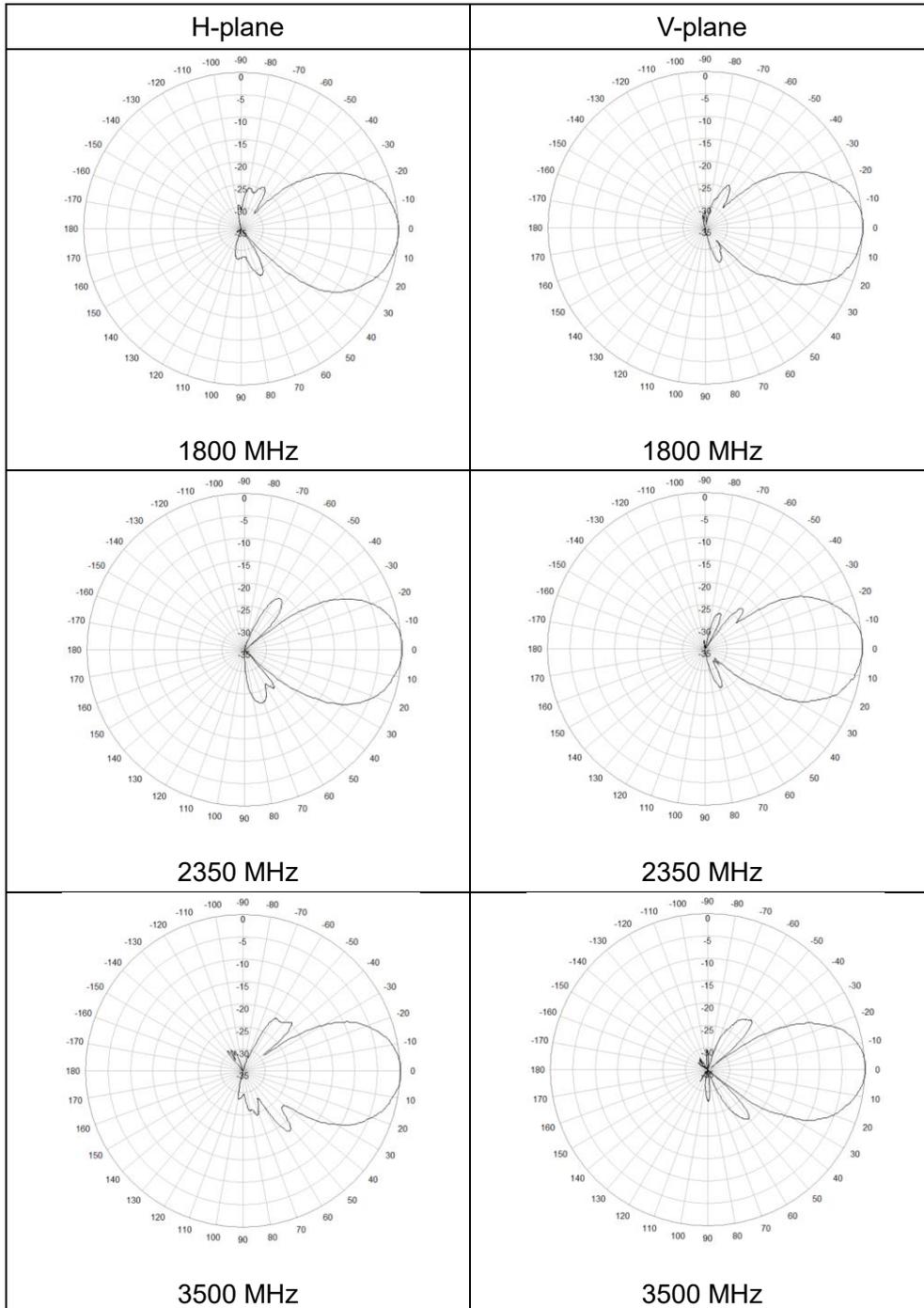
Bracket drawings



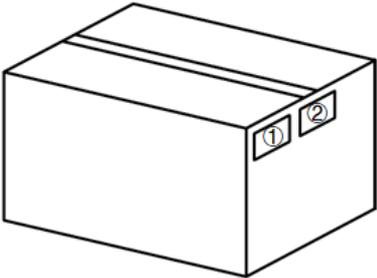
	J-W.JLS0007	M10X160-Bolt	2	304	
8	J-W.JPD0007	M10-Washer	2	304	
	J-W.JLM0007	M10 Nut	4	304	
7	J-B.JZJ0040	Bracket-2	1	304	
6	J-B.JZJ0041	Bracket-3	1	304	
5	J-B.JZJ0042	Bracket-4	1	304	
4	J-B.JZJ0039	Bracket-1	1	304	
3	J-W.JLS0006	M8X20 Bolt	8	304	
2	J-W.JTD0003	M8 Spring Washer	8	304	
1	J-W.JPD0003	M8 Washer	8	304	
序号	代号	名称	数量	材料	备注

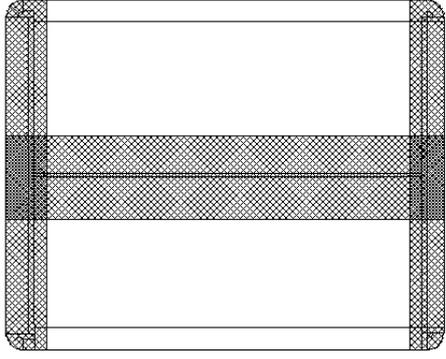
3 Detailed Performance

2D Radiation Pattern



4 Packaging

Step	Packaging Picture / 2D Picture	Description
1		<p>Product drawing</p>
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 = 840 × 480 × 230 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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