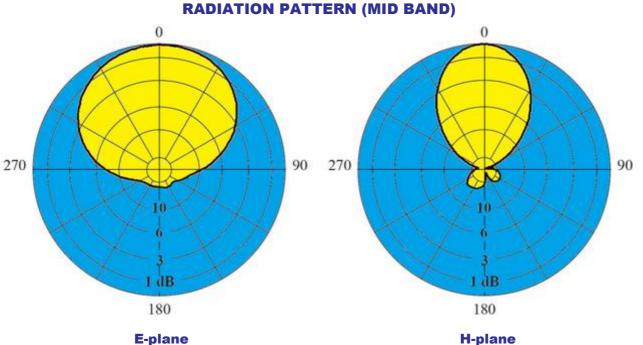
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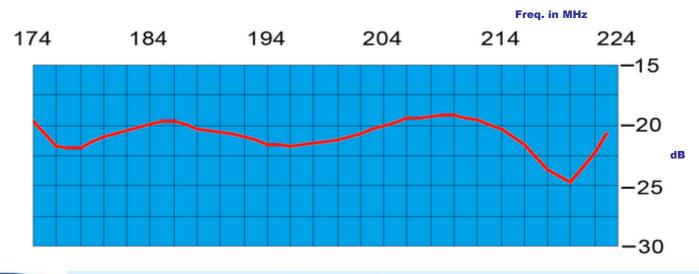
Model : AJ4III

- Band III
- Broadband 174 ÷ 223 MHz
- Demountable
- Vertical or Horizontal polarization
- Pressurizzable on request







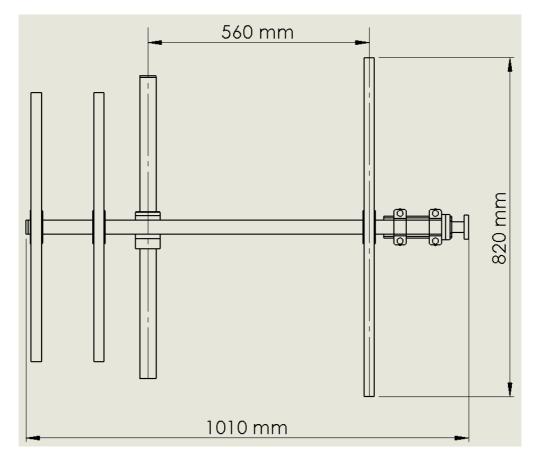




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ELECTRICAL DATA		MECHANICAL DATA		
Frequency range	174 ÷ 223 MHz	Dimensions	1010x820x180 mm	
Impedance	50 Ohm	Weight	11 Kg without hardware mounting	
Connectors	N or 7/16" or 7/8" EIA		0.16 m ²	
Max Power	800W (N)–2KW (7/16")–3 KW (7/8" EIA)	Wind surface		
VSWR	 ≤ 1.22:1 Horizontal polarization with pole diam. 100 mm ≤ 1.25:1 Vertical polarization with pole diam. 100 mm 	Wind load	21.4 Kg (wind speed at 150 km/h – without radome)	
		Max wind velocity	220 Km/h	
Polarization	Horizontal or Vertical		External parts: stainless steel Internal parts: passivated aluminium, brass Radome : fiberglass or PTFE(option)	
Gain	4.8 dB (referred to half-wave dipole)	Materials		
Half power beam width	E plane ± 32° H plane ± 62°	Icing protection	Feed point radome (optional)	
		Radome color	White (optional)	
Lightning protection	All metal parts DC grounded	Mounting	With special pipe clamps 50 ÷ 110 mm dia.	





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Radiations systems with AJ4III Yagi antenna

Directional pattern

ELECTRICAL DATA

Frequency range	174 ÷ 223 MHz	
Impedance	ce 50 Ohm	
Connector	EIA flange according to system power rating	
VSWR	≤ 1.25:1 Max	
Polarization	Horizontal or Vertical	
Gain	According to requirement	
Horizontal pattern	ntal pattern Any type according to requirements	
Vertical pattern	Null fill, beam tilt and special requirements to order	
Other facilities	The antenna system can be supplied in split feed with	
	two equal half antennas. Each half can accept full power	

MECHANICAL DATA

Height of array	Subject to number of bays (refer to table)		
Total net weight	Refer to table		
Wind load	Refer to table		
Pressurizzable	Yes (on request)		
Radome colour	White (optional)		
Mounting hardware	Hot dip galvanized steel clamps (option)		
Shipping	As required		

TECHNICAL DATA

Number of	Dipoles per	Gain ¹		Weight ² kg	Antenna height L	Wind load (v=150 km/h)
bays	bay	dB	times		m	kg
2	1	7.8	6.0	22	2.1	42.8
4	1	10.8	12.0	44	4.7	85.6
6	1	12.6	18.1	66	7.3	128.4
8	1	13.8	23.9	88	9.9	171.2
12	1	15.6	36.3	132	15.1	256.8

referred to a half wave dipole. Attenuation of connecting cables not taken into account.

² without mounting hardware

- ⊳ Gain is provided for vertical polarization.
- If the antenna is side mounted, the supporting structure will have a slight effect on the radiation pattern and VSWR. \mathbf{P}
- Vertical tower space, wind load and weight numbers given are typical. Actual values vary with the specific installation. Contact us for more details Þ of your installation.
- Gain will be reduced if null fill, beam tilt or special wavelength spacing is provided. \geq
- ۶ Antenna radiation aperture is the distance from the centre of the top bay to the centre of the bottom bay.
- Five ft(1.6mt) of pipe required above the top bay and below the bottom bay for to protect from pattern interference by other antennas. ۶
- Antenna wind load is calculated for 93 Mph (150Km/h) per EIA-222-C standard.





