Parabolic antenna JRMB - 1200 -17

www.jirous.com

Antenna JRMB – 1200 – 17 is designed for microwave links at the frequency band 17 GHz. Precise performance with deep reflector dish is complying with standard ETSI EN 302-217-4-2 class 2. High cross-port isolation allows use system with polarizing separation.

Electrical parameters:

Frequency range	17.1 – 17.3 GHz
Gain	44.6 ± 0.6 dBi
Front to back ratio	≥ 65 dB
Beamwidth$_{-3\ dB}$	0.9°
Cross-port isolation	≥ 45 dB
Polarization	Vertical / Horizontal
Return loss (VSWR)	≥ 15.5 dB (≤ 1.4)
ETSI standard	EN 302-217-4-2 v1.5.1 Class 2

Mechanical parameters:

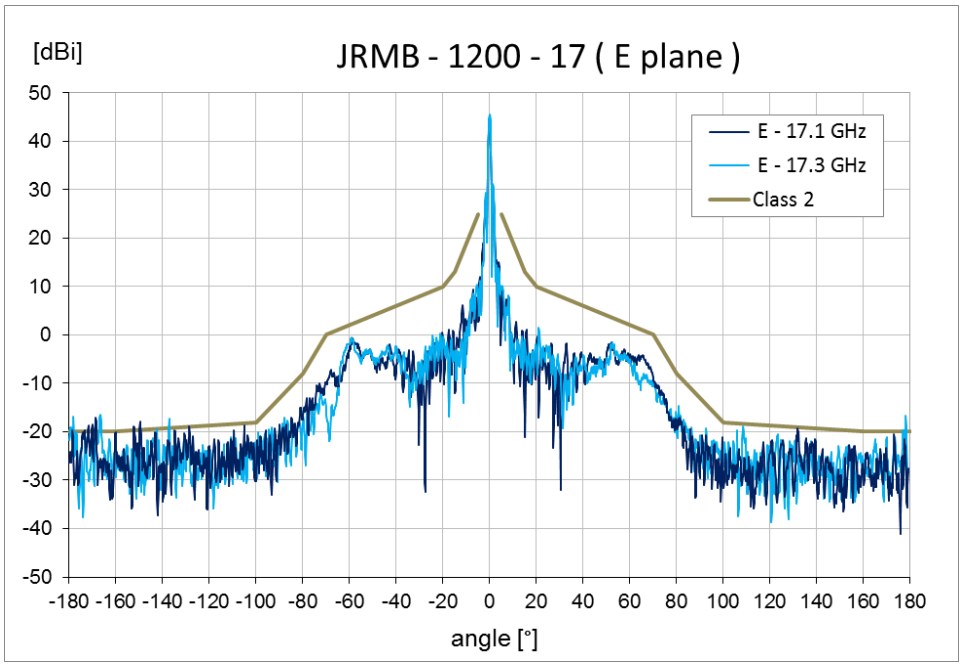
Parabola	Ø 1200 mm , aluminium alloy
Depth of parabola	440 mm
Cover	UV steady composite material
Input / output	Circle waveguide Ø 11 mm
Installation for mast	ø 80 - 120 mm ø 60 - 80 mm – with adjustable wind bracing set
Operating wind load	
- without wind bracing	110 km/h (68 mph)
- with wind bracing	140 km/h (87 mph)
Survival wind load	210 km/h (130 mph)
Weight of antenna	16.3 kg (35.94 lbs.)
of antenna bracket	14.9 kg (32.85 lbs.)
Shipping dimensions – 1 pcs	1300 mm x 800 mm x 1430 mm
Shipping dimensions – 2 pcs	1300 mm x 1100 mm x 1430 mm

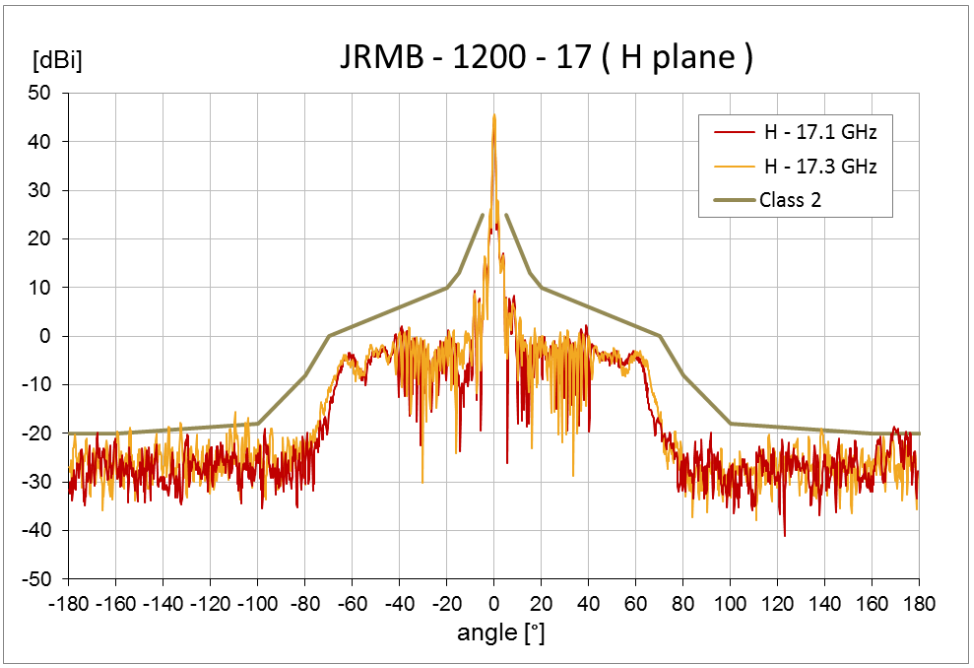
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The antenna is supplied together with a massive bracket that allows easy mounting on a mast. Bracket can be installed separately on the mast. Subsequently, can be simply hang up the antenna with microwave unit into it. Antenna bracket allows fine setting elevation ± 15°and azimuth ± 7°. It is possible mounting to right and left side. We recommend wind bracing set (optional accessories,) for mounting to the adverse weather conditions. **It is necessary to use an adjustable wind bracing kit** (optional accessories, Fig. 4) for mounting on the mast with **diameter 60 to 80 mm**.

Measurement of radiation pattern:





Outline:

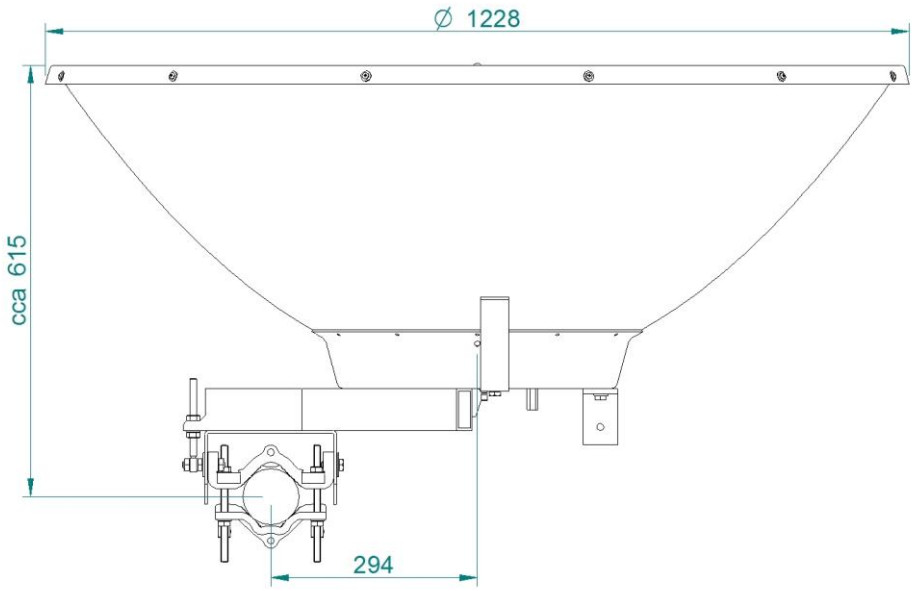


Fig. 1 Antenna dimensions

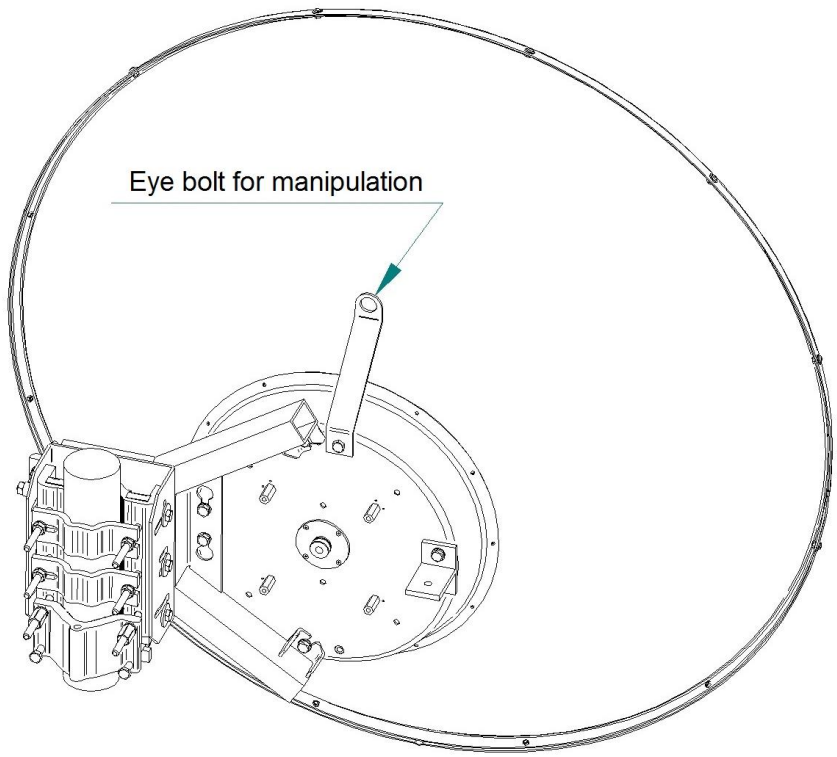


Fig. 2 Antenna with massive bracket (left side)

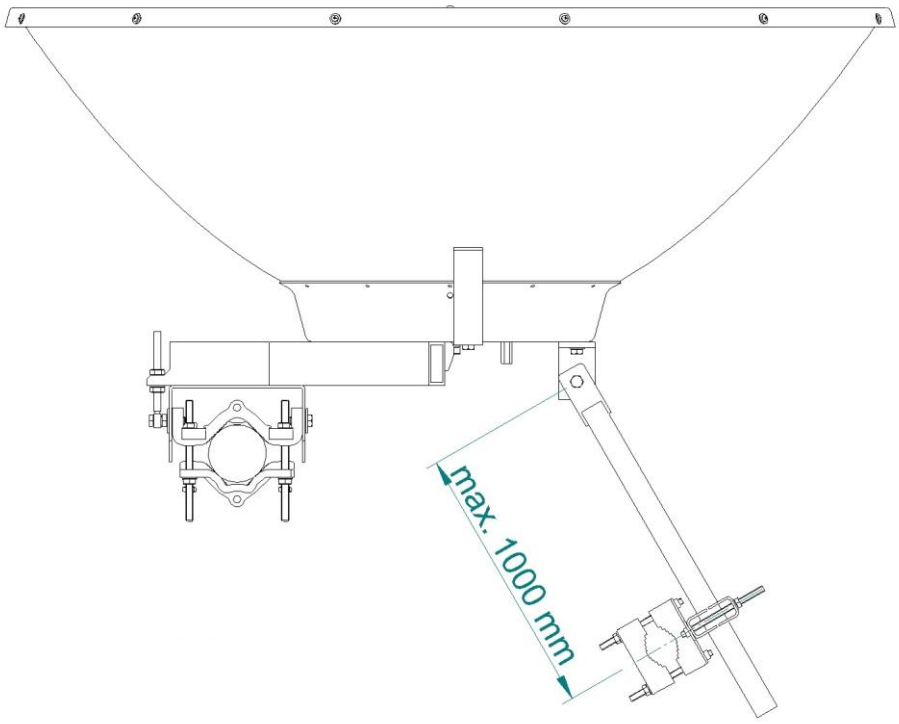


Fig. 3 Antenna with wind bracing kit (top view)

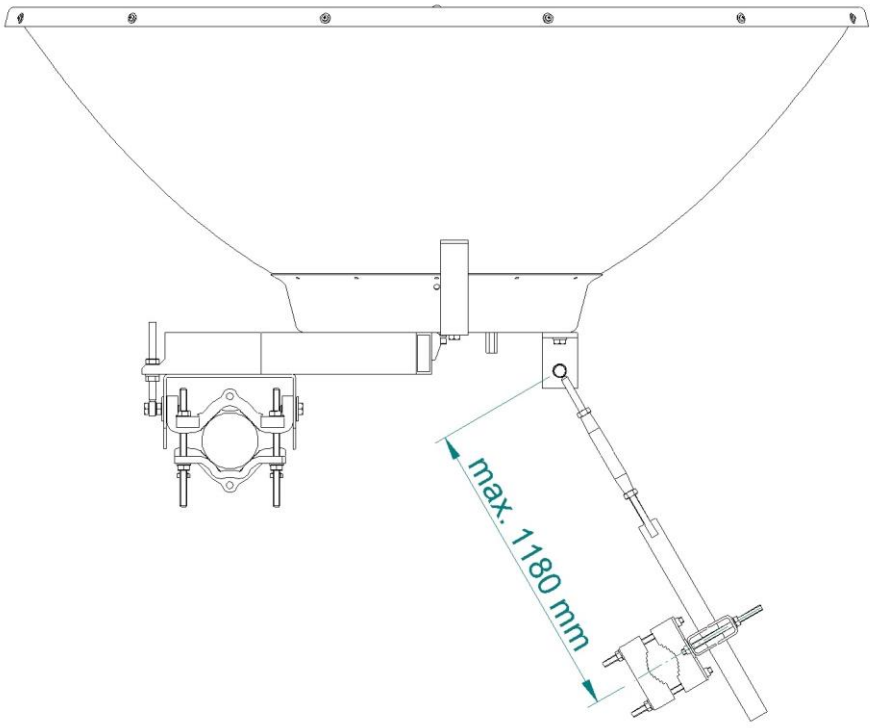
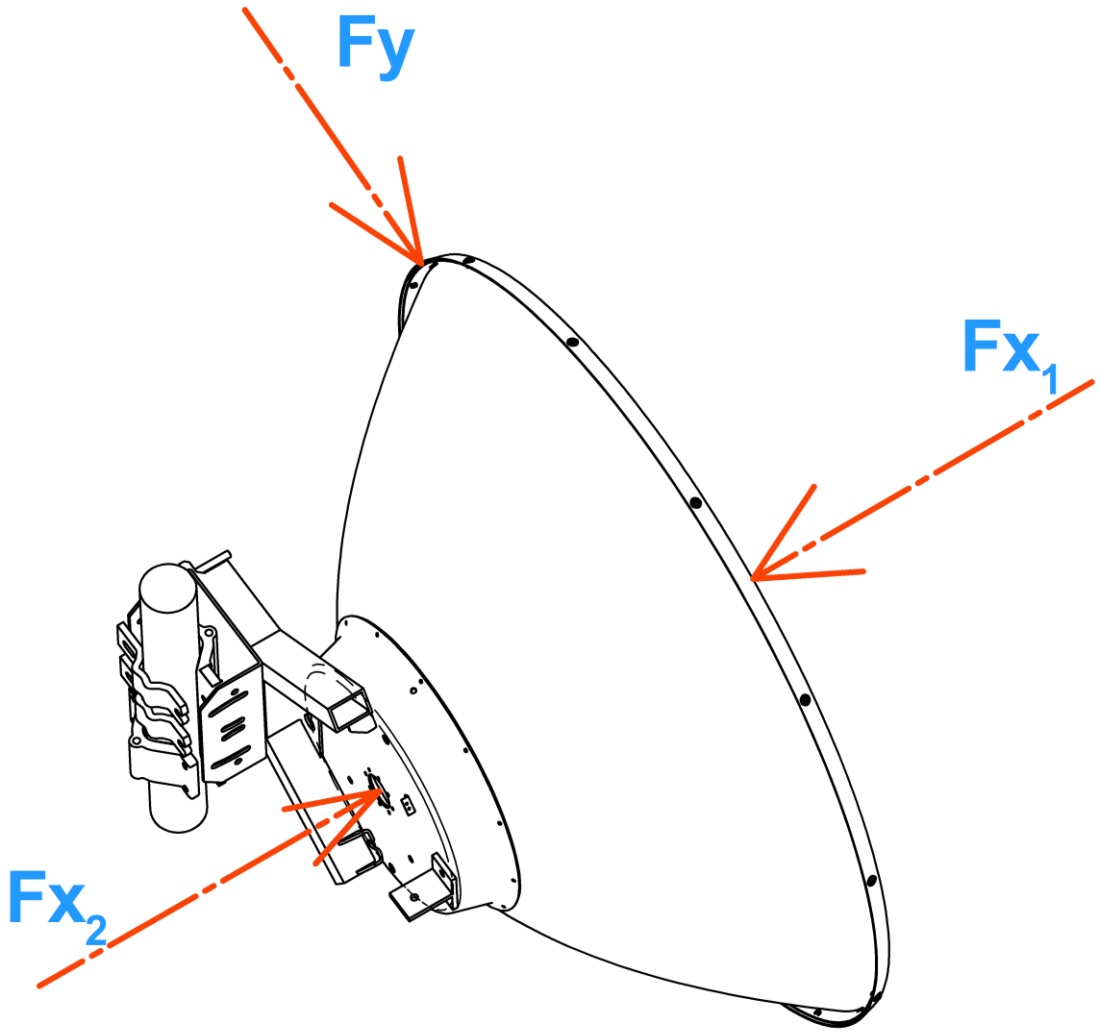


Fig. 4 Antenna with adjustable wind bracing kit (top view)

Wind loading:



Wind Loading at 200km/h (125mph)		
Direction	Force [N]	Force [lbf]
Fx1	2696	607
Fx2	2186	492
Fy	247	56