

## Parabolic antenna JRC-35DD Duplex Precision

Dual-polarized parabolic antenna **JRC-35DD Duplex Precision** is designed for directional links with **full-duplex mode** or MIMO mode at the frequency band 5 GHz with high isolation level. The antenna is designed for long distances. **Its design with deep dish increases isolation among antennas on a mast increases front to back ratio.**

### Electrical parameters:

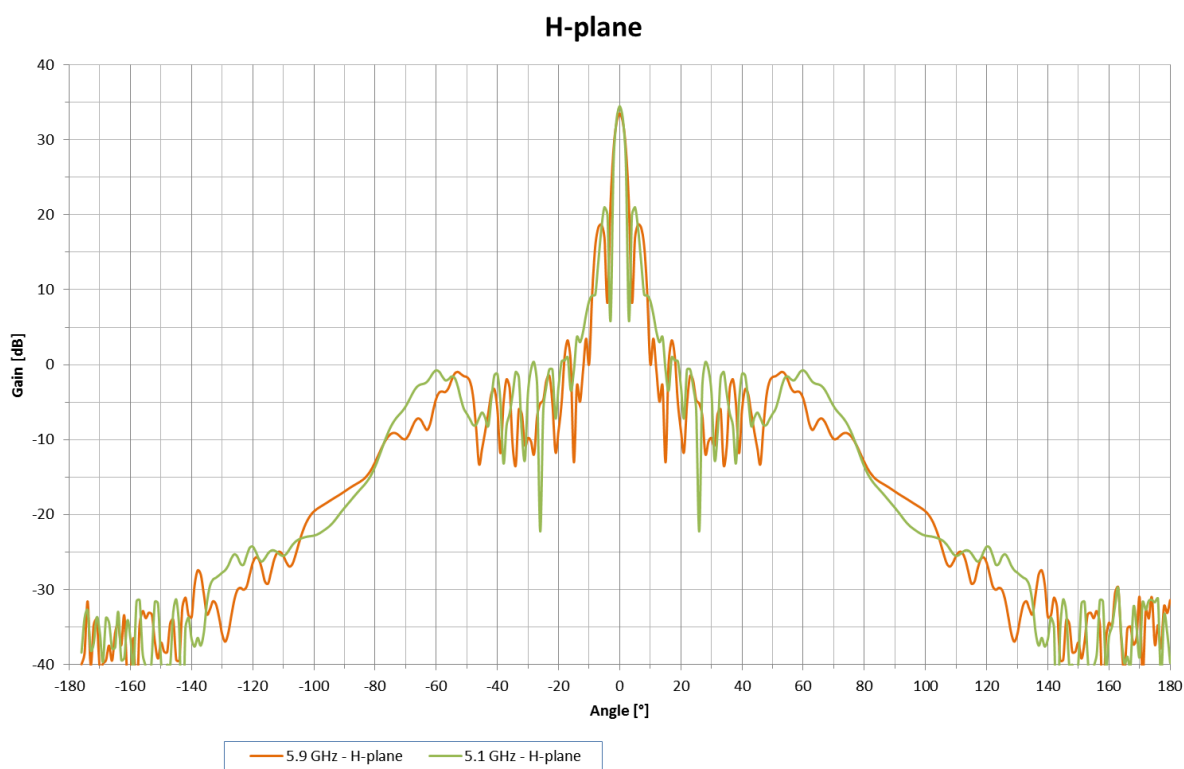
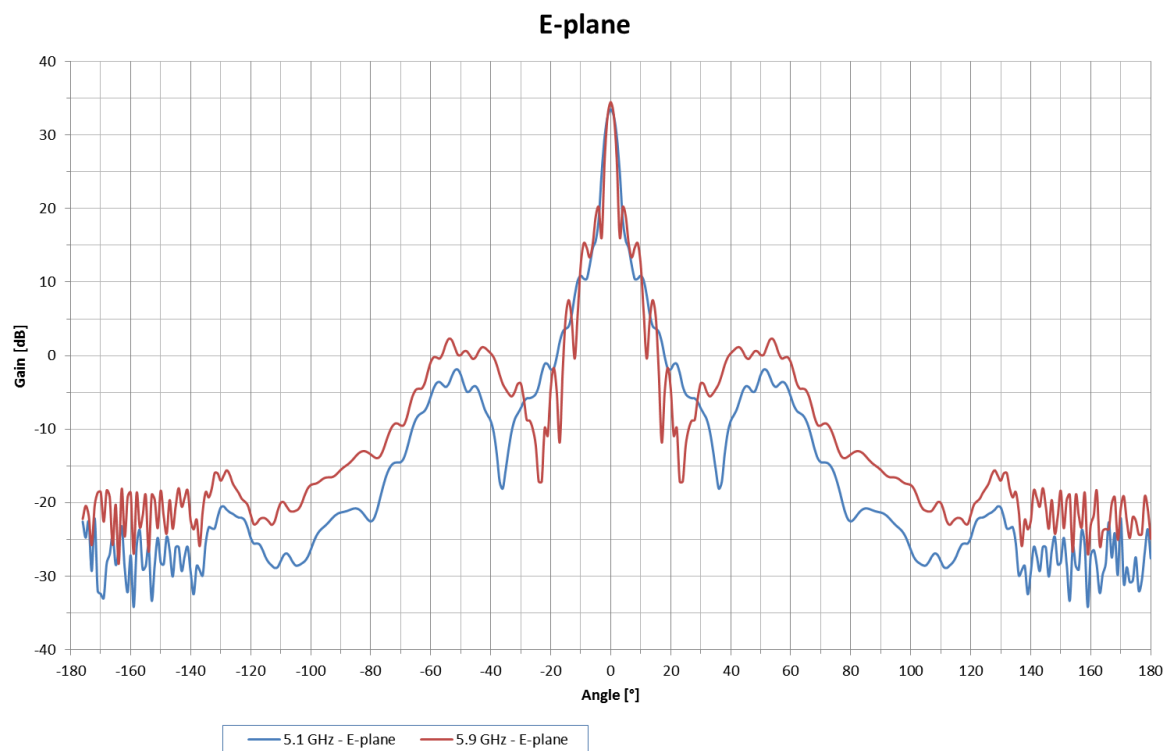
<b>Frequency range</b>	4.9 – 6.1 GHz
<b>Gain</b>	35 ± 1 dBi
<b>VSWR</b> 5.1 – 5.9 GHz	≤ 1.4
<b>Beamwidth</b> -3 dB	3.1°
<b>Port to port isolation</b> 5.1 – 5.9 GHz	≥ 50 dB (typ. 53 dB) (rest of the freq. range ≥ 43 dB)
<b>Front to Back ratio</b>	≥ 53 dB
<b>Polarization</b>	Linear, vertical/horizontal or 45°

### Mechanical parameters:

<b>Parabola</b>	Ø 1200 mm, Aluminium alloy
<b>Radome</b>	UV steady plastic ABS
<b>Type of connector</b>	N-female, R-SMA
<b>Installation for mast</b>	Ø 80 - 120 mm Ø 60 - 80 mm with adjustable wind bracing set
<b>Operating wind load</b>	110 km/h (68 mph) without wind bracing set 140 km/h (87 mph) with wind bracing set
<b>Survival wind load</b>	210 km/h (131 mph)
<b>Weight of antenna</b>	29.5 kg (65 lbs.)
<b>Shipping dimensions – 1pc</b>	1310 x 740 x 1440 mm/67 kg (148 lbs.)
<b>Shipping dimensions – 2pcs</b>	1310 x 1100 x 1440 mm/103 kg (227 lbs.)

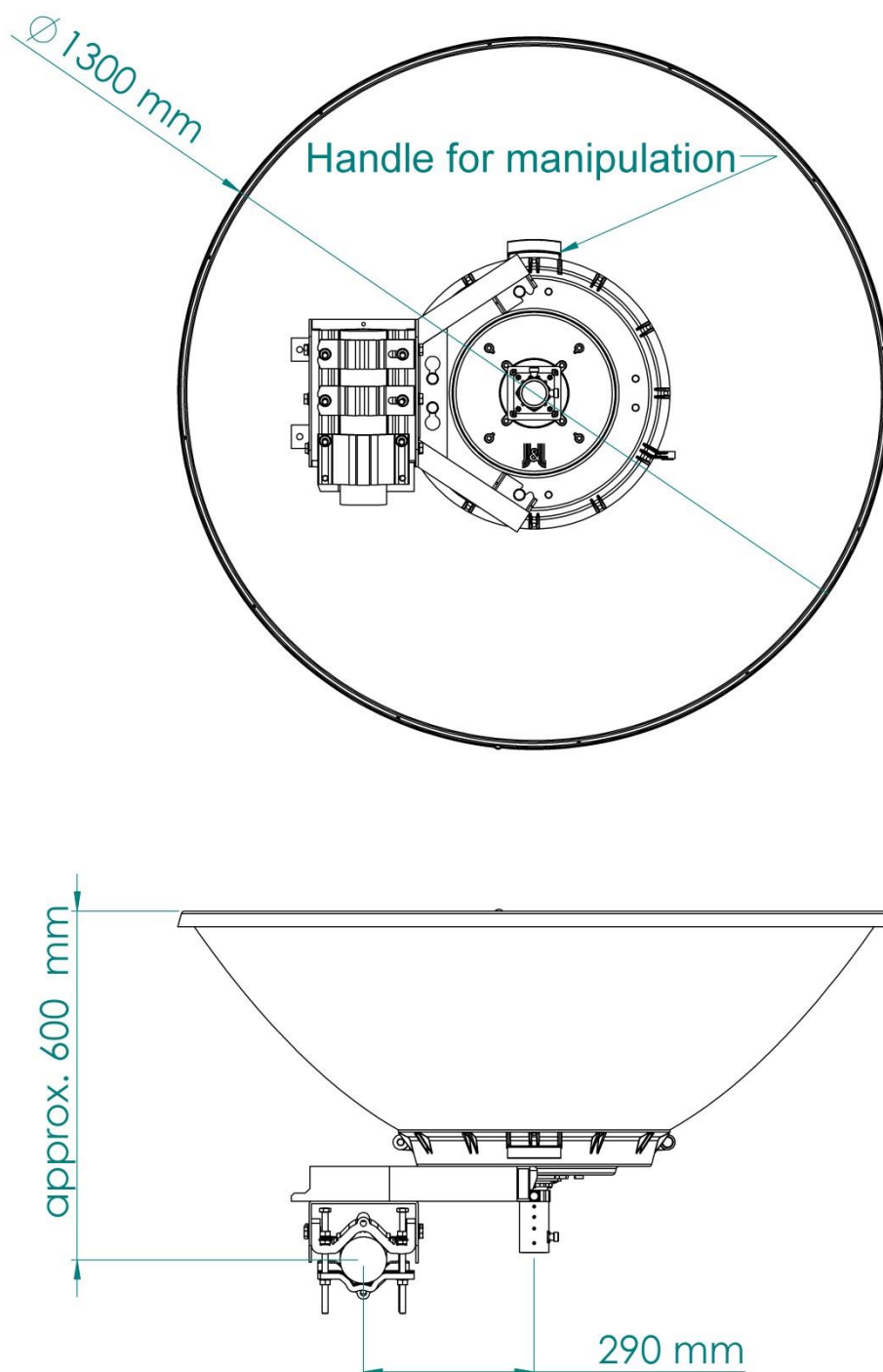
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Radiation pattern:

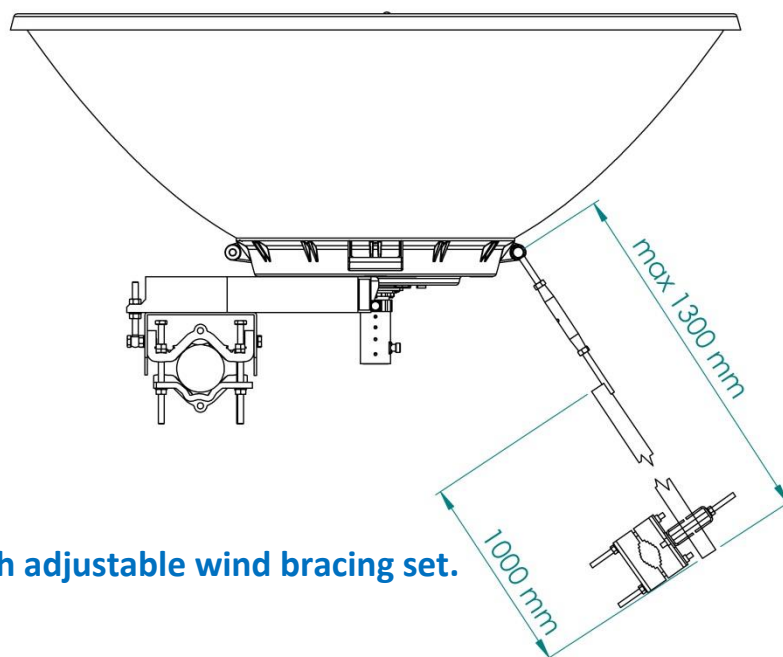


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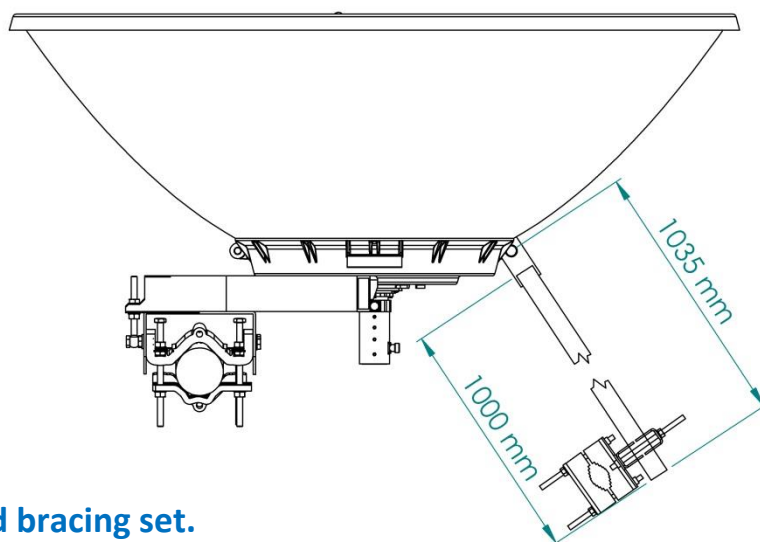
### Outline:



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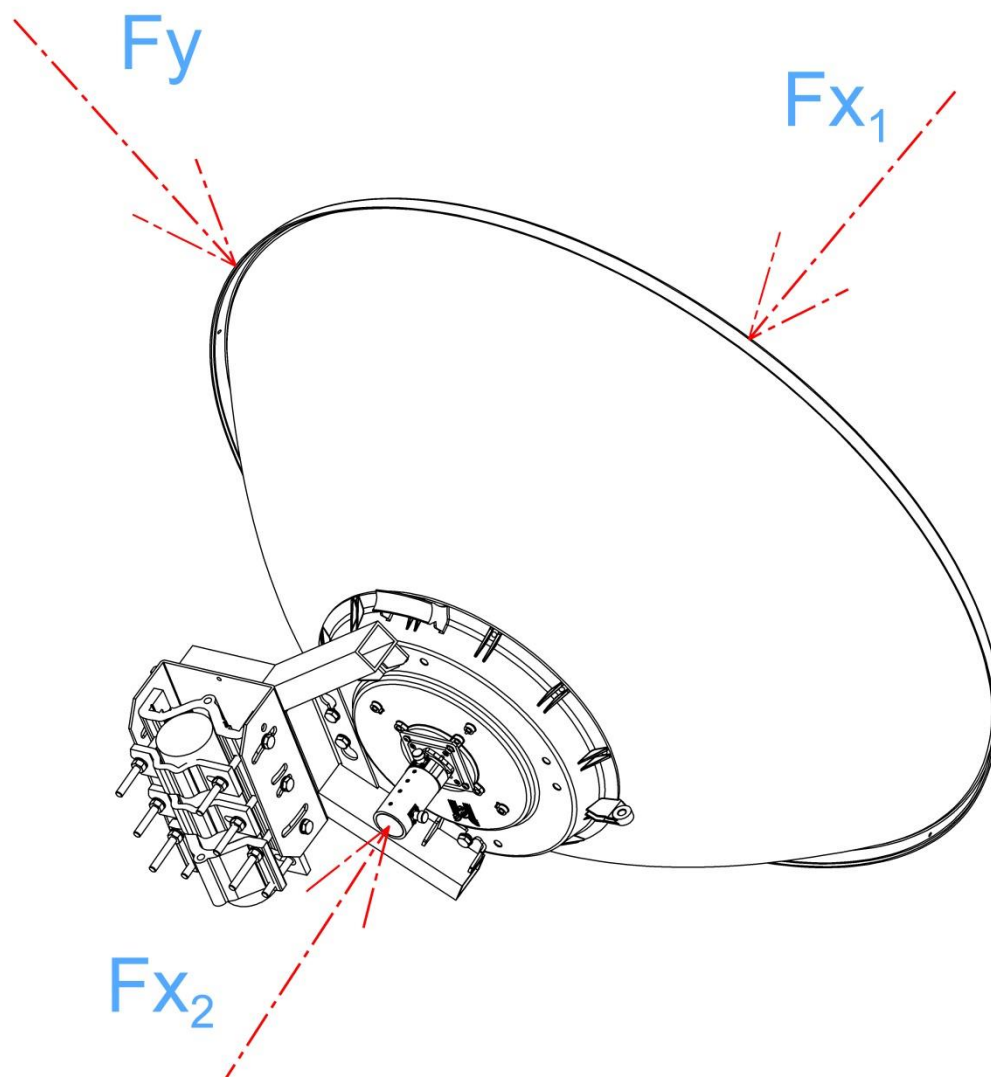
Antenna with adjustable wind bracing set.



Antenna with wind bracing set.

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### Wind loading:



### Wind Loading at 200 km/h [125 mph]

Direction	Force [N]	Force [lbf]
$F_{x_1}$	2696	606
$F_{x_2}$	2186	491.4
$F_y$	247	55.5