

# Microwave antenna

## AL2-80/APR

# ALCOMA

### Microwave antenna description

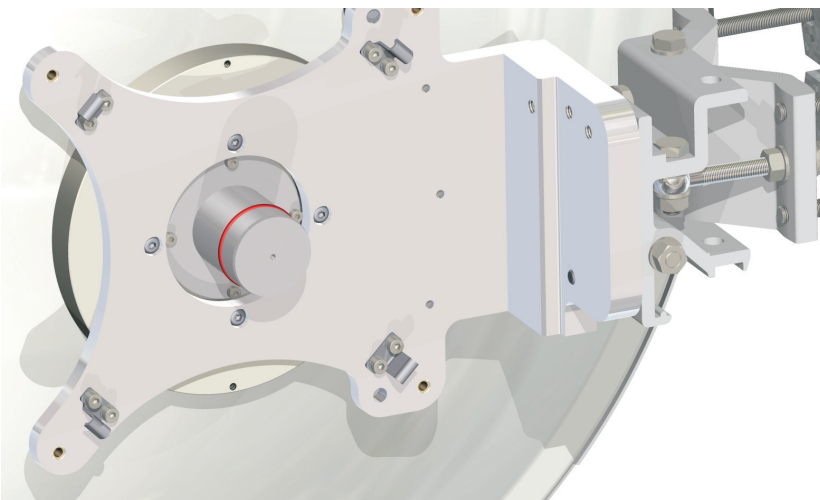
High Performance 0.65 m antenna for ALCOMA point to point radios.

### General parameters

Diameter	0.65 m (2 ft.)
Feeder	single polarized
Input flange	circular, hole diameter 3.2 mm
Polarization	horizontal or vertical
Environmental temperature	-45 °C až +55 °C
Color	light gray
Radom color	white
Radom material	plastic (ABS)

### Electrical parameters

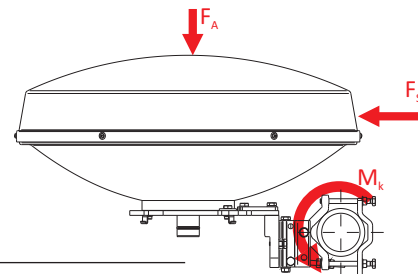
Frequency band	71-76 / 81-86 GHz
Gain 73,5 GHz	51 dBi
83,5 GHz	52 dBi
3 dB - BW	0.4° (H/V)
Return loss	< 1.20 (20 dB)
F/B ratio	54 dB
XPD	32 dB
Class	2 (ETSI EN 302 217-4-2)



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### Mechanical parameters

Wind speed	max 30 m/s (110 km/h)
Wind speed non destruct	max 55 m/s (200 km/h)
Net weight	11 kg
Pipe diameter	50 - 120 mm
Fine adjust Azimuth	$\pm 20^\circ$
Fine adjust Elevation	$\pm 20^\circ$



### Forces and twisting moment due to wind

Wind speed	30 m/s (110 km/h)	55 m/s (200 km/h)
$F_a$	290 N	960 N
$F_s$	85 N	410 N
$M_k$	70 Nm	230 Nm
Icing thickness 25 mm (led $7\text{kN/m}^3$ )		190 N

### Outlines

