

7M / 9M FULL MOTION ANTENNA

For satellite communication in LEO / MEO orbits

Antenna	7.3 m	9.0 m
Antenna type	Ring focus	Ring focus
Frequency bands		
S-band Tx [GHz]*	2.025 – 2.120	2.025 – 2.120
S-band Rx [GHz]*	2.2 – 2.3	2.2 – 2.3
X-band Rx [GHz]*	7.75 – 8.50	7.75 – 8.50
Ka-band Rx [GHz]*	25.5 – 27.0	25.5 – 27.0
Tracking	Monopulse TE21, Step, Program, TLE	Monopulse TE21, Step, Program, TLE
G/T at lowest frequency		
S-band @ 5° El [dB/K]	≥19.4	≥21.2
X-band @ 5° El [dB/K]	≥31.3	≥33.0
Ka-band @ 5° El [dB/K]	≥37.5	≥39.3
EIRP at lowest frequency		
S-Band [dBW]	≥61.8	≥63.7
Isolation		
Cross-polarization isolation @ 1 dB contour [dB] Rx/Tx	≥18	≥18
S-band: Tx/Rx	≥120	≥120
Radiation Pattern	**ITU-R S.465-6**	**ITU-R S.465-6**

Standard configurations represented, customer-specific options available.
*Exemplary, available for different frequencies/band combinations.

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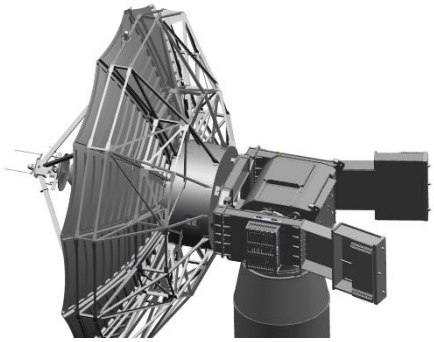
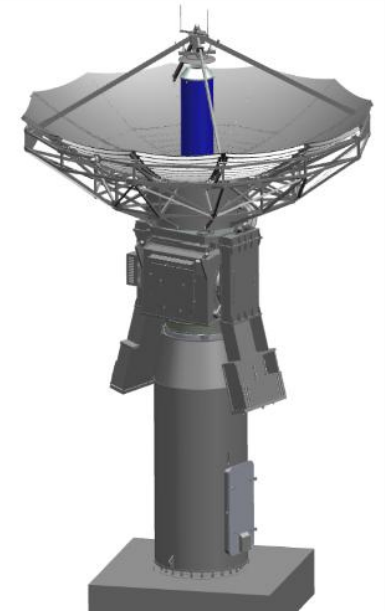
Mechanical	7.3 m/9.0 m
Mount	
Mount type	Elevation over azimuth and tilt
Antenna travel	
Azimuth	±270° (±360°)
Elevation	0°-90°
Tilt	0° to 180° Inclination: 6° max
Speed	
Azimuth [°/s max]	10
Elevation [°/s max]	5
Tilt [°/s max]	5
Acceleration	
Azimuth [°/s^2 max]	7.25
Elevation [°/s^2 max]	2.5
Tilt [°/s^2 max]	1



Environmental	7.3 m/9.0 m
Wind speed	
Operational [km/h]	72
Gusting [km/h]	100
Survival (stow position) [km/h]	180
Ambient temperature	
Operational [°C]	-20°C to +45°C
Survival [°C]	-40°C to +55°C outside (optional)
Relative Humidity	
Humidity	0 to 100% with condensation
Precipitation	
Rain fall operational [mm/h]	100
Snow load [mm] (total)	250



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