

TECHNICAL SPECIFICATIONS



Electrical

Rx & Tx cable	2 RG6 cables (10 m each)	
Control Cables:		
Standard:	10m Ext. Cable	
Optional:	upto 75m available	
Transmit (Tx) Power	1 to 200 Watt (Ku band) ⁽²⁾	
Transmit (Tx) Frequency	13.75 – 14.50 GHz (Ku Band)	
Receive (Rx) Frequency	10.95 – 12.75 GHz (Ku Band)	
Midband Gain		
Rx	39.8 dBi	
Tx	41.3 dBi	
Sidelobe Envelope, Co-Pol (dBi)		
	100λ / D Ø < 20°	29 - 25 Log Ø dBi
	20° < Ø < 26.3°	- 3.5 dBi
	26.3° < Ø < 48°	32 - 35 Log Ø dBi
	48° < Ø	- 10 dBi (averaged)
Cross-Polarization		
Within B.P.E.	- 30 dB Max. ⁽³⁾	
Any Angle off Axis	- 25 dB Max.	

Physical

Mounting Plate	L: 50" (1270mm)
	W: 18" (457mm)
Stowed Dish Ext. Dims	L: 61" (1549mm)
	W: 39.5" (1003mm)
	H: 18.25" (463mm)
Deployed Height	52" (1320 mm) Max.
Reflector Assembly Weight	30 lbs (13.7 kg)
Base Weight	113 lbs (51.3 kg)
Total Weight	143 lbs (65 kg)

Environmental Survival

Wind Deployed	100 mph (160 km/h)
Wind Stowed	140 mph (225 km/h)
Temperature	-40°F to 150°F (-40°C to 65°C)

Operational

Wind	45 mph (72 km/h)
Temperature	-22°F to 130°F (-30°C to 55°C)

Warranty

Standard	2 years
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Mechanical

Reflector	0.98 m Circular Prodelin Antenna ⁽¹⁾
Mount Geometry	Elevation over Azimuth
Polarization	Dish rotation cross-polarization isolation
Deployment Sensors	GPS antenna
	Compass ± 2°
	Tilt sensor ± 0.2°

RF Interface

Radio Mounting	Feed Arm / Rear of Base /Inside Vehicle
Axis Transition	Twist-Flex Waveguide
Waveguide	WR75 Cover Flange Interface
Coaxial	RG6U from Feedhorn to Base Connector
Standard Feed	Prodelin Model 1984 Based (2 Port - X Pol)
European/Eutelsat Feed	Prodelin Model 1985 Based (2 Port - X Pol)

Motors

Electrical Interface	12V DC 15A max.
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Maximum Mount Rotation

Azimuth	Full 360° in overlapping 200° sectors
Elevation	0 - 65°
Polarization	±70°
Elevation Deploy Speed	Variable 5°/sec typ
Azimuth Deploy Speed	Variable 15°/sec max, 10°/sec typ
Peaking Speed	0.2°/sec

Note:

⁽¹⁾ Antenna based on Prodelin, Model 1984. Eutelsat Feed, Model 1985 is also available as an option.

⁽²⁾ Depending on size and weight for feed arm mounting limitation.

⁽³⁾ Systems are configured with Cross-Pol as standard, Co-Pol is optional.