

# TECHNICAL SPECIFICATIONS



## Electrical

Tx & Rx cables	2 RG6 cables (10 m each)	
Control Cables	Standard	
	Optional	
Transmit (Tx) Power	1 to 200 Watt (Ku band)	
Transmit (Tx) Frequency	13.75 – 14.50 GHz (Ku Band)	
Receive (Rx) Frequency	10.95 – 12.75 GHz (Ku Band)	
Midband Gain		
Rx	41.5 dBi	
Tx	43.0 dBi	
Antenna Noise Temperature		
20° Elevation	46° K	
30° Elevation	43° K	
Sidelobe Envelope, Co-Pol (dBi)		
	Receive	Transmit
	1° < $\theta$ < 20°	29 - 25 Log $\theta$ dBi
	20° < $\theta$ < 26.3°	- 3.5 dBi
	26.3° < $\theta$ < 48°	32 - 25 Log $\theta$ dBi
	48° < $\theta$	- 10 dBi (averaged)
Cross-Polarization		
Within 1 dB contour	-30 dB Max. <sup>(2)</sup>	
Any Angle off Axis	-25 dB Max.	
VSWR	1:3:1 Max.	

## Mechanical

Reflector	1.2 m Prime Focus, Offset Feed <sup>(1)</sup>
Mount Geometry	Elevation over Azimuth
Deployment Sensors	GPS antenna
	Compass $\pm$ 2°
	Tilt sensor $\pm$ 0.2°

## Physical

Mounting Plate	L: 52" (1321mm) W: 22" (559mm)
Stowed Dish Ext. Dims	L: 69.75" (1771mm) W: 48.6" (1235mm)
	H: 19.25" (488mm)
Deployed Height	66" (1676 mm) Max.
Reflector Weight	35 lbs (15.9 kg)
Total Weight w/ Reflector	204 lbs (92.5 kg)

## Environmental Survival

Wind Deployed	70 mph (112 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	-26°F to 130°F (-32°C to 55°C)

## RF Interface

Radio Mounting	Feed Arm / Rear of Base / Inside Vehicle
Axis Transition	Twist-Flex Waveguide
Waveguide	WR75 Cover Flange Interface
Coaxial	RG6U from Feed Arm to Base
Feed	2 port Xpol

## Motors

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

Azimuth	Full 360° in overlapping 200° sectors
Elevation	0 - 85°
Polarization	$\pm$ 90°
Elevation Deploy Speed	Variable 2°/sec typ
Azimuth Deploy Speed	Variable 15°/sec max, 10°/sec typ
Peaking Speed	0.2°/sec

## Warranty

Standard	2 years
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**Note:** <sup>(1)</sup> Antenna based on Prodelin, Model 1132 / 1134.

<sup>(2)</sup> Depending on size and weight for feed arm mounting limitation