



Electrical

Feed Horn LNB & Tx Cable	2 RG6 cables for Tx & Rx (30'/each)	
Transmit (Tx) Frequency	27.5 - 31.0 GHz	
Receive (Rx) Frequency	18.3 - 20.2 GHz	
Feed Interface	<u>Receive</u>	<u>Transmit</u>
	RG6	RG6
Midband Gain (+ .2dB)		
Rx	39.5 dBi @ 14.25 GHz	
Tx	38.0 dBi @ 11.95 GHz	
Antenna Noise Temperature		
20° Elevation	48 °K	
Sidelobe Envelope, Co-Pol (dBi)	<u>Receive</u>	<u>Transmit</u>
	2.2° < θ < 7°	29 - 25 Log θ dBi
	7° < θ < 9.2°	+8 dBi
	9.2° < θ < 48°	32-25 Log θ dBi
	48° < θ < 180°	-10 dBi (averaged)
Cross-Polarization	<u>Receive</u>	<u>Transmit</u>
Within 1 dB Beamwidth	28 dB	28 dB

Mechanical

Reflector	Prime Focus, Offset Feed
Mount Geometry	Elevation over Azimuth
Deployment Sensors	GPS antenna Compass ± 2° Tilt sensor ± 0.2°

Physical

Mounting Plate	L: 52.0" (1321mm) W: 22" (559mm)
Stowed Dish Ext. Dims	L: 75" (1905mm) W: 48.6" (1235mm) H: 12.5" (470mm)
Deployed Height	68" (1727 mm) Max.
Weight	113 lbs (51 kg)

Environmental Survival

Wind Deployed	124 mph (200 km/h)
Wind Stowed	140 mph (225 km/h)
Temperature	-40°F to 150°F (-40°C to 65°C)

Operational

Wind	47 mph (75 km/h)
Temperature	-26°F to 130°F (-32°C to 55°C)

RF Interface

Radio Mounting	Feed Arm
Waveguide	WR75 Cover Flange Interface
Coaxial	RG6U from Transceiver to Base Connector
Electrical Interface	Connectors for Controller 10m Ext. Cable

Motors

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

Azimuth	Full 360° in overlapping 200° sectors
Elevation	0 - 60°
Elevation Deploy Speed	Variable 2°/sec typ
Azimuth Deploy Speed	Variable 15°/sec max, 10°/sec typ
Peaking Speed	0.2°/sec