

# 980



## 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) *	
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.	- 30 dB Max.	
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)

\* Depending on size and weight for feed arm mounting limitation

### Mechanical

Reflector	0.98 m Circular Antenna
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:

Systems are configured with Cross-Pol as standard, Co-Pol is optional. A Eutelsat Feed is also available as an option for this system.

Standard warranty: 2 years



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