



## 1.9 MT MOBILE ANTENNA

Model Type: ANP0095D

- Robust
- Easy to mount
- High performance
- 180 cm offset reflector
- Designed for Ku band VSAT applications
- Developed for cost focused customer segment of the market

Antech 190 Ku band is a high performance, powerful and efficient motorised SNG antenna system. **Designed for Ku band uplink operations as part of a dedicated integrated uplink vehicles.** It has been also designed for heavy duty conditions as a reliable system which was proved in field for many years in operation. **The 190 Ku is an easy to mount antenna system** on the roof of the vehicle thanks to its compact design.

Once you fix the antenna you can use the system for many years without any problem. **190 Ku is also easy for removing and re-installation onto new vehicles.** The antenna features also a motorized handling in three axes (azimuth, elevation and polarization). **The command to move and check the antenna handling is supervised by the Antenna Control Unit.**

The antenna is provided with a Optical Encoder (for azimuth and elevation axes) and with a potentiometer for the polarization axis. **All cables between the Antenna and the ACU are provided.**

Azimuth, elevation and polarization switches limit is installed and connects directly to the ACU for the safety control of the antenna handling.





## ANTENNA SPECIFICATION

Type		1.9 mt Ku-Band SNG Antenna	
		Rx	Tx
Antenna Diameter		1.9 mt	
Antenna Optic		Offset – double reflector	
Main reflector material		Composite/Carbon fiber	
Frequency (GHz)		10.70 - 12.75	13.75 - 14.50
Gain, Mid-band (dBi)		45.2	46.7
Feed		2 Ports Linear ortogonal	
VSWR		1.30:1	
Feed Interface		WR - 75	WR - 75
Feed Insertion Loss		0.25 dB	0.15 dB
Power Handing		2000W CW	
Tx - Rx Isolation		≥ 30dB	
Noise Temperature	20° Elev.	34K (@11.85 GHz)	
	40° Elev.	34K (@11.85 GHz)	
	60° Elev.	34K (@11.85 GHz)	
Typical G/T		25 dB/K @11.85 GHz 70K LNA, 20° El. and clear sky	
Side lobes		ITU - RS.580-5	

## MECHANICAL SPECIFICATION

Antenna Pointing Range (Continous)	Azimuth	Elevation	Polarization
		± 190°	5° to 90°
Drive Mode (3 axis)	Motorized		
Azimuth Travel Speed	0.20° / sec		
Elevation Travel Speed	0.20° / sec		
Polarization Travel Speed	0.1° / sec		
Total Structure Dimension	2600 x 1850 x 630 mm		

## ENVIRONMENTAL SPECIFICATION

Operational Wind	75km/h, gusts to 100 km/h
Survival Wind	120 Km/h
Ambient Temperature	-30° up to +60°
Relative Humidity	100%
Solar Radiation, Survival	1135 Kcal/h/mq
Ice Load, Survival	25 mm
Total Structure Weight	150 kg Perimeter spoiler included without RF equipment

### ITALSPAZIO

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