

2.4M C AND KU BAND RECEIVE ANTENNA

This motorised platform provides robust reception capacity in all conditions while maintaining a compact form factor and allowing easy installation.

The mounting pole is heavy duty box section for maximum rigidity with the option of non penetrating mounts, cast in-place mounts or a bolt-down tripod..

Controller options allow tracking of inclined orbit satellites as well as a range of other features Construction is from heavy section steel, hot dip galvanized for lifelong protection, with high accuracy slewing drives and auxiliary bearings. The antenna is aluminium with a polyester powder coat finish

ANTENNA TECHNICAL SPECIFICATION

Antenna diameter	2.4m prime focus
Gain at: 3.95 / 11.95 GHz	38.0 dBi / 47.6 dBi
VSWR	C-Band 1.5:1 / Ku-Band 1.3:1
Numer of Ports	C-Band 2 / Ku-Band 2
Operational frequency range	C-Band 3.7-4.2 / Ku-Band 10.95-12.75 Ghz
Polarity	C-Band CP / Ku-Band LP
Pointing accuracy	within 0.1 degrees az/el, 1 degree polarisation
Weights -head antenna	~120kg 30 kg
Wind load capabilities	Operational to 55mph, survival 125mph
Rain (Operational)	12mm per Hour
Temperature (Operational)	-40 to +55 deg C
Atmospheric	Coastal and Industrial Areas
Solar Radiation	360 BTU/h/ft2
Antenna de-ice	Optional
Antenna Noise Temperature 5deg Elevation	C-Band 36K / Ku-Band 31K
Cross Pol Isolation	C-Band 18dB / Ku-Band 26dB
Pattern Beamwidth	C-Band 2.1deg / Ku-Band 0.7deg
Elevation Movement	0-90 deg
Azimuth Movement	+/-130 deg

Polarization Movement

+/- 90 deg

CONTROLLER TECHNICAL SPECIFICATION

Tracking Algorithms	NORAD tracking based on downloaded TLE's Step tracking using optional external beacon receiver
Antenna Selection	Select from automatically updated antenna list Manually enter antenna location
Slew Speed	1deg per Sec for Az/EI 5deg per Sec for Pol
Controller Interface Front Panel Web RC&M	High contrast 40x8 character display Integral web server for connection to PC/ Tablet Fully featured remote control protocol
Electrical Connections	Ethernet, for connection to PC or internet Serial for modem connection Emergency stop loop
Size	19" 2U rack mount 400mm deep
Weight	7kg

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