

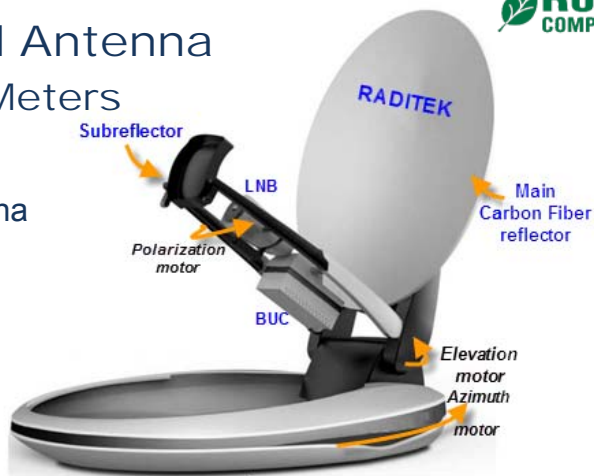


# Vehicle Mounted Antenna

## Ku or C Band, 2.4 Meters

### Features

- Gregorian Antenna
- Carbon Fiber
- SNG



Antenna Control Unit (ACU) in Base with GPS compass  
Incl. Microprocessor, Servo controllers, Tracking receiver etc

### Order Examples: RANT-Ku-2.4M-Rx-Tx-VMA-x15

**Description:** (Vehicle Mounted Antenna, Ku Band, 2.4 Meters, Receive Transmitter)

**Additional Options:** C Band (see specs in table)

This is a complete 2.4m carbon fiber reflector based, tracking transmit and receive, vehicle mount antenna for C and Ku band. It can transmit to 300W, and has linear polarization skew adjustment as well as Az and El actuators. The unit has a self contained ACU (Antenna Control Unit) with processor, motor drivers, GPS compass, and control.

Type	2.4m (antenna diameter)	
	Extended Ku Band	C Band
Reflector aperture		
Tx frequency (GHz)	13.75 -14.5	5.85 - 6.65G
Rx frequency (GHz)	10.95 -12.75	3.40 - 4.20G
Tx gain (dBi)	49+20 log (f/14.25)	41.75 +20 log(f/6.25)
Rx gain (dBi)	47.8 +20 log (f/12.5)	37.96 +20 log(f/3.8)
Polarization	Linear	Linear
Cross polarization (Axis )	35 dB	35 dB
Power capacity	To 300W	To 300W
Rx (Tx isolation	85 dB	85 dB
Side lobe	-14 dB (First side lobe)	
	$29-251\log \theta (1^\circ \leq \theta < 20^\circ)$	
	$32-251\log \theta (20^\circ \leq \theta < 48^\circ)$	
	-10 dBi ( $\theta \geq 48^\circ$ )	
Reflector type	Gregorian	
Weight	300Kg	
Stowed size	3.280*1.885*0.650m	
Movement Speed	Azimuth	$\pm 220^\circ$
	Elevation	$10^\circ$ to $90^\circ$
	Pol	$\pm 100^\circ$
Rotation speed	Azimuth	$0.01^\circ /s. - 3^\circ /s.$
	Elevation	$0.01^\circ /s. - 3^\circ /s.$
	Pol	$1^\circ /s.$
Operating wind load	To 20m/s	
Stowed wind load	To 30m/s	
Temperature	-35 °C to + 55°C	
Humidity	0-98% (condensing)	