

# 1033 Celero

## 1.0 Meter Motorized Flyaway Antenna



The Sat-Lite Technologies Model 1033 Celero motorized flyaway antenna is highly portable, light-weight, and can be assembled by one person in less than 15 minutes. The antenna features a 4 piece segmented glass fiber reinforced reflector with compact pedestal and is designed to be value priced while providing exceptional performance. The motorized elevation-over-azimuth pedestal provides excellent stiffness characteristics and convenience for the user when pointing and peaking on a satellite. The antenna packs in 2 ruggedized / all-weather shipping cases. The controller is also packaged in an all-weather housing and mounts externally on the antenna and uses quick connect cabling. Multiple Feed configurations are available that include X Band, Ku Band, and Ka Band.



<i><b>Electrical Specifications</b></i>	<b>2 Port X Band Circular</b>		<b>2 Port Cross Pol Ku Band Linear / Standard Feed</b>		<b>2 Port Cross Pol Ka Band Circular Polarization</b>	
	<b>Rx</b>	<b>Tx</b>	<b>Rx</b>	<b>Tx</b>	<b>Rx</b>	<b>Tx</b>
Frequency (GHz)	7.25 - 7.75	7.9 - 8.4	10.70 - 12.75	13.75 - 14.5	18.3 - 20.2	28.3 - 30.0
Gain (Midband, dBi)	35.6	36.2	39.7	41.2	44.0	47.5
Noise Temperature (°K)						
10 deg El	80		69		135	
20 deg El	65		59		102	
Axial Ratio	1.5 dB	1.5 dB			1.5 dB	1.0 dB
(low Axial Ratio Version)	0.5 dB	0.5 dB				
Cross Pol (std)						
On Axis	-21.3 dB	-21.3 dB	-35 dB	-35 dB	-21.3 dB	-24.8 dB
in 1 dB Contour	-21.3 dB	-21.3 dB	-27 dB	-27 dB	-21.3 dB	-24.8 dB
Sidelobes	Meets DSCS		ITU 580		ITU 580	
VSWR	1.30:1	1.30:1	1.35:1	1.30:1	1.35:1	1.30:1
Isolation						
Tx/Rx	-110 dB	0 dBm input	-85 dB	0 dBm input	-85 dB	0 dBm input
Rx/Tx	0 dBm input	-110 dB	0 dBm input	-40 dB	0 dBm input	-80 dB

Note: Specifications subject to change without notice

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<i><b>Mechanical / Environmental Specifications</b></i>	
Reflector	98 cm (39 in) GFRP
Reflector Configuration	4 Piece Segmented Single Offset
Antenna Travel	
Azimuth	360° continuous with fine adjust
Elevation	5 - 90° of reflector bore sight
Polarization	± 90°
Packaging (Compression Molded - All Weather)	
Reflector / Backbeam Case	37.5" x 27.5" x 14.5" (92 lbs)
Motorized Positioner / Controller Case	14" x 19.5" x 24" (55 lbs)
Temperature	
Operational	-30 to 60°C (-22 - 140°F)
Survival	-40 to 70°C (-40 - 158°F)
Winds	
Operational	30 mph Gusting to 45 mph ( 48 kph G 72 kph)
Survival (tied down, any position)	60 mph (96 kph)
Survival (tied down, stowed >85 deg el.)	80 mph (128 kph)
BUC Integration	
BUC Mount - Direct to Feed	3.3 lbs (1.5 kg)
BUC Mount - Boom Mount / Flex WG	22 lbs (10 kg)
BUC Mount - Az Base Mount / Flex WG	44 lbs (20 kg)

<i><b>Controller Electrical Interface</b></i>	
Input Power:	100 - 240 VAC, 1 Phase, 50/60 Hz, 500 W
Temperature:	Operational: -30° to +60° C
	Survival: -40° to +70° C
Outdoor Unit Size:	8.75" (222) x 12" (305) x 3" (76 mm)
Weight	8 lbs (3.6 Kg)
Display	GUI Interface via Ethernet – Web Browser via Laptop, Tablet or PDA
Operation	Push Button – Auto Locate / Pack Up Configuration
	Jog / Auto Locate / Program – Via Ethernet
Antenna Configurations	Sat-Lite Technologies Preconnectorized Flyaway Terminal 3 Axis Control, Drives Azimuth, Elevation, Polarization Axes (DC Motors)
RF Input	L Band from LNB (controller does not power LNB)
DVB Receiver	DVBS-2, Based on Frequency, Polarization, Symbol Rate, FEC, Modulation
User Interface Requirements	AC Input Power (Power Cord Supplied), Ethernet (RJ 45)
	Rx Input from LNB Via Type F(f) (L - Band)

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