## AVL TECHNOLOGIES MODEL 2010C AVL Carbon Fiber 2.0 METER MOTORIZED VEHICULAR SNG ANTENNA

Reflector Feed Optics Drive System Mount Geometry Polarization Adjustment 2.0 meter AvL Carbon-Fiber Precision Horn Offset, Prime Focus, .8 F/D Patented Roto-Lok® Positioner Elevation over Azimuth Rotation of Feed



Electrical RF	<u>Receive</u>	<u>Transmit</u>
Frequency Buy Now	3.625 - 4.2 GHz	5.850 - 6.425 GHz
Optional Insat		6.725 – 7.025 GHz
Gain (Midband)		
2-port	36.3 dBi	40.1 dBi
VSWR	1.30:1	1.30:1
Beamwidth (degrees)		
-3 dB	2.5	1.7
-10 dB	4.8	3.2
First Sidelobe Level (Typical)	-20 dB	-23 dB
Radiation Pattern		
Transmit – 1.8°to 30°		29-25 Log Ø
Receive – 2.7° to 30°	32-25 Log Ø	
Antenna Noise Temperature	48° K at 10° Elevat	ion
Polarization	Linear standard, O	otional Circular
Power Handling Capability		0.5KW per port
Cross-Pol Isolation – On-axis		
Linear	35 dB	35 dB
Circular	19 dB	25 dB
Feed Port Isolation – TX to RX	70 dB	
Satellite System Compliance	Compatible for 2° S	pacing
<u>Controllers</u>		
Standard	Three-axis Jog Control & D	Display with Auto-stow
Optional Upgrades		
Semi-automatic Operation	Drive to calculated position based on operator entered vehicle location, heading, plus satellite (longitude or listed)	
Automatic Operation	Drive to calculated position	based on auto GPS and Flux-Gate

Compass data and satellite peaking with LNB signal

110/240 VAC, 1 ph, 50/60 Hz, 9/5 amps peak, 1A cont.

and optimization of cross-pol (certified for auto-

commissioning on select services)

One-button acquisition of selected satellite including peaking

Two Rack Units for Semi-automatic & Automatic Controllers

Auto-acquisition

Size Input Power

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<u>Mechanical</u>		
Az/El Drive System Patented Roto-Lok® Cable Drive System		
Polarization Drive System	Non back-driving Worm Gear	
Travel		
Azimuth	270° Standard, 400° Optional for 2-port or Feed Boom Mounted HPA	
Elevation Mechanical Electrical	True elevation readout from calibrated inclinometer 0° to 90° of Reflector Boresight Standard limits at 5° to 65° (CE Approval) or 5° to 90°	
Polarization	±95° for 2-port and 3-port Feeds	
Speed		
Slewing/Deploying	2°/second	
Peaking	0.2°/second	
Motors	24V DC Variable Speed, Constant Torque	
RF Interface		
HPA Mounting	Feed Boom, Rear of Reflector or Inside Truck	
Axis Transition	Rotary Joints in Az and El, Flex in Pol	
Waveguide	WR 137 Cover Flange at Interface Point	
Coax	RG59 run from feed to base plus 25 ft. (8 m)	
Electrical Interface	25 ft. (8 m) Cable with Connectors for Controller	
Manual Drive	Handcrank on Az and El Axii, Leads from 12VDC Pol Motor	
Weight	300 lbs. (136 kg)	
Stowed Dimensions	103½ L x 80 W x 20 H inches (263 L x 203 W x 51 H cm)	
<u>Environmental</u>		
Wind		
Survival		
Deployed	60 mph (121 kmph)	

Stowed Operational Pointing Loss in Wind 20 mph (32 kmph) 30 Gusting to 45 mph (48 to 72 kmph)

Temperature Operational Survival 100 mph (121 kmph) 100 mph (161 kmph) 45 mph (72 kmph), Gusts to 60 mph (97 kmph)

0.05 dB max 0.2 dB max

+5° to 125°F (-15° to 52° C) -40° to 140°F (-40° to 60° C)



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