AVL TECHNOLOGIES

Model 2010 Premium SNG 2.0m Motorized Transportable Vehicle-Mount Antenna

Unique Features	 2.0m AvL Single Piece Carbon Fiber Reflector 	
	 Optional three-piece carbon fiber reflector with manually 	
	folding hinged wings or motorized folding hinged wings	
	 Zero Backlash AvL Cable Drive 	
	 Compact/Rugged Pol Gear Drive 	
	 "One-Button" Auto-Acquisition 	
Optics	Offset, Prime Focus, 0.8 f/D	
Standard Rx/Tx Feed	2-Port Ku-Band Precision (LP) (standard Cross-Pol comp.)	
Optional Feeds	 4-Port Ku-Band Precision (LP) (standard Cross-Pol comp.) 	
	 2-, 3- or 4-Port Ku-Band Wideband (LP) 	
	 2- or 4-Port Ka-Band Commercial (CP) 	and diet.
	• 2- or 3-Port C-Band (CP or LP)	
	 2-Port C-Band INSAT (LP) 	an state
Polarization Adjustment	Motorized Worm Gear Drive	
Standard Colorization	AvL White or Metallic Gray (optional colors available)	

Mechanical Motorized Zero Backlash AvL Cable Drive (Patent Pending) Az/El Drive Polarization Drive System Motorized Worm Gear Drive 2.0m Single Piece AvL Carbon Fiber; Optional three-piece carbon fiber reflector with manually **Reflector Construction** folding hinged wings or motorized folding hinged wings Axis Travel ±200° Standard; 270° with dual waveguide to vehicle, options include dual Ku, single C + Azimuth single Ku Elevation Mechanical 0°-90° antenna bore sight Electrical 5° to 90° Standard limits or 5° to 65° (CE Approval) Polarization ±95° for 2-port and 3-port Feeds; ±50° for 2-port Wideband and 4-port Feeds Az/El Speed Slewing/Deploying (typical) 2°/second Peaking (typical) 0.2°/second 24 VDC Variable Speed, Constant Torque Motors **RF** Interface HPA Mounting Feed boom, rear of reflector or inside truck Axis Transition Twist-flex or optional rotary joints for Ku-Band; Pol rotary joint standard for C-Band Waveguide Cover Flange at Interface Point Coax RG59 run from feed to base plus 25 ft. (8m) Electrical Interface 25 ft. (8 m) Cable with Connectors for Controller Manual/Emergency Drive Hand crank on Az, El and Pol axes Time to Acquisition Less than 15 minutes, 8 minutes typical Weight (approximate) 400 lbs. (182 kg) Stowed Dimensions 108.5 L x 79.3 W x 18.3 H inches (276 L x 202 W x 46 H cm) Azimuth ring bolts directly to vehicle Mounting

Environmental

Wind – Survival	Deployed: 60 mph (121 kph); Stowed: 100 mph (161 kph)						
Wind - Operational	30 mph (48 kph), gusts to 45 mph (72 kph)						
Pointing Loss in Wind*	Ku-Band Rx	Ka-Band Rx	C-Band Rx				
30 mph gusting to 45 mph (48 kph gusting to 72 kph)	1.7 dB	2.0 dB	0.25 dB				
Temperature:							
Operational	-22° to 125° F (-30° to 52° C)						
Survival	-40° to 140° F (-40° to 60° C)						

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RF/Electrical									
Feed Type 🕨	Std. 2-Port Pre	Std. 2-Port Precision Ku-Band		Opt. 2-Port Ka-Band**		Opt. 2-Port C-Band			
RF Parameter ▼	Receive	Transmit	Receive	Transmit	Receive	Transmit			
Frequency Range (GHz)	10.95 - 12.75	13.75 - 14.50	17.7 - 20.2**	27.5 - 30.0**	3.625 - 4.2	5.850 - 6.425			
Polarization Configuration		inear Orthogonal Standard, Optional Co-Pol		CP or LP**		Linear or Circular Options			
Gain (mid-band) (dBi)	46.0	47.6	49.9	53.4	36.4	40.3			
Beam width -3 dB (Degrees) -10 dB (Degrees)	0.86 1.65	0.72 1.4	0.5	0.3	2.5 4.8	1.7 3.2			
Radiation Pattern Compliance Transmit – 100λ/D to 20° Receive – 100λ/D to 20°	FCC §25.209,	FCC §25.209, ITU-R S.580.6		FCC §25.209		ITU-R S.580.6 29-25 Log Ø 32-25 Log Ø			
Antenna Noise Temperature	57° K @ 20° El		106° K @ 20° El		49° K @ 20° El				
G/T, Midband (dB/°K)	25.7 with 43°K LNB		26.7 with 100°K LNB, 20.7 GHz		17.9 with 20°K LNB				
Power Handling Capability		500 watts per Port		250 watts per Port		1000 watts per Port			
Circular Axial Ratio (within pointing cone) (dB) Cross-Polarization Isolation (dB) On-Axis (minimum) Off Axis (within 1 dB BW)	35 28	35 30	1.5	1.0	2.3	1.3			
On Axis Linear On Axis Circular					35 19	35 25			
Feed Port Isolation – Tx to Rx (dB)	35	80 (includes filter)				70			
		Con	troller						
Controller AvL AAQ									
Features	detector and au	AvL one button auto-acquisition of selected satellites, including peaking and optimization of cross pol. Internal movement detector and automatic stow. Optional hand-held control and separate power supply. Certified for auto-commissioning on most satellite services.							
Size		Embedded ACU with separate 1 Rack Unit Controller Interface Panel (CIP) power supply with LCD and keypad. 250 W and 500 W (1.6m and larger antennas) versions available.							
CIP Input Power		120/240 VAC 60/50 Hz, 6/3 A Max. Power consumption is antenna size dependent: During acquisition 150 W or 300 W is typical, ~ 50 W Idle							
Available Options, Upgrades & Services									
 Optional feeds: 4-port Ku-band Precision (LP), 2-, 3- or 4-port Ku-band Wideband (LP), 2- or 4-Port Ka-Band (CP), 2- or 3-Port C-Band (CP or LP), or 2-Port C-Band INSAT (LP) Add co-polarization kit (for 2-port Ku feeds only) - configures Rx and Tx to same polarity Optional waveguide rotary joint with flex on pol axis for Ku-Band Optional H/V switch (Ku Wideband) Optional wave guide cross axis kits Optional Dual/Redundant HPA high power integration Optional Dual/Redundant HPA high power integration Optional Comparison (CP), 2- or 3-Port C-Band (CP or LP), or 2-Port C-Band (CP) - configures Rx and Tx to same polarity Optional waveguide rotary joint with flex on pol axis for Ku-Band Optional H/V switch (Ku Wideband) Optional Dual/Redundant HPA high power integration Optional Comparison (Comparison (

* Assumes stable platform.

** Contact Sales for commercial Ka-band frequency range options and circular or linear polarization options.

Request A Quote