Avl technologies

Model 1268 PIB F/A 1.2M Ku/Ka Band Portable Auto-Acquisition Antenna

Reflector Type Optics Interchangeable Feeds Positioner Az/El Drive System Mount Geometry Polarization Adjustment Military Standard

1.2M 4-piece Carbon Fiber Offset, Prime Focus, 0.8 F/D Ku LP, Ka CP Case-based Patented Roto-Lok® Positioner Elevation over Azimuth Motorized Rotation Feed MIL-STD-188-164a Type E-V



<u>Mechanical</u>

Travel - Azimuth - Flevation - Polarization Speed - Slewing/Deploying - Peaking - Tracking Electrical Interface **Emergency Drive** Wind - Operational-mph Without anchoring With anchoring - Survival (anchored) Temperature - Operational - Survival Configuration - Rugged Cases Motorized Positioner Outriggers/Feed Boom/ Reflector **RF** Interface **BUC Mounting** Set-up Time

±200°
0°-95° of boresight
±91° for Linear Feeds, Adjustable within <1°
2°/second
0.2°/second
0.1/second
32 ft. Cable with Connectors for Controller
Handcrank on Az, El; Knob on Pol

30 mph 30 mph gusting to 45 mph 80 mph in zenith stowed position -20° to 125°F -40° to 140°F

22" x 21" x 23"; less than 165 lbs. 43" x 28" x 21; less than 110 lbs.

Mounted on antenna feed boom Less than 15 minutes

Controllers

Туре

Fully Automatic Satellite Acquisition, Peaking, and Cross-Pol Adjustment using GPS, Compass, Level Sensor Inputs and auto compensation with Entry of Desired Satellite.

Operator Interface Auto Positioning Accuracy Input Power Front panel keyboard or hand-held remote \pm 0.2° 90-256V AC power supply, 8A peak, 2A continuous

AvL TECHNOLOGIES Model 1268 PIB F/A

1.2M Ku/Ka Band Portable Auto-Acquisition Antenna

Ku-Band	<u>Receive</u>	<u>Transmit</u>
Frequency	10.95-12.75 GHz	13.75-14.5 GHz
Gain (Midband)	41.6 dBi	43.1 dBi
VSWR	1.30:1	1.30:1
Beamwidth (degrees)		
-3 dB	1.5	1.2
-10 dB	2.7	2.3
Radiation Pattern Compliance	FCC §25.209, ITU-R S.580	
Antenna Noise Temperature	54° K at 20° Elevation, 11.85 GHz	
Polarization	Linear Orthogonal standard, Optional Co-pol	
Power Handling Capability	ç	0.5KW per port
Cross-Pol Isolation		
On-Axis (minimum)	35 dB	35 dB
Off-Axis (within 1 dB BW)	27 dB	28 dB (35dB with Mode-matched)
Port-to-Port Isolation	35 dB	85 dB
Satellite System Compliance	FCC, Intelsat, and PanAmSat	
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<u>Ka-Band</u>	<u>Receive</u>	<u>Transmit</u>	
Frequency	20.2-21.2 GHz	30.0-31.0 GHz	
Gain (Midband)	46.2 dBi	49.5 dBi	
VSWR	1.30:1	1.30:1	
Beamwidth (degrees)			
-3 dB	0.9	0.6	
-10 dB	1.5	1.1	
Radiation Pattern Compliance	FCC and MIL-STD-188-164A		
Antenna Noise Temperature	107°K at 20° Elevation, 20.7 GHz		
Polarization	Circular convertible to either RHCP or LHCP		
Power Handling Capability		250 watts per port	
Axial Ratio	1.5 dB	1.0 dB	
Port-to-Port Isolation	35 dB	35 dB	
		(85 dB with optional TX reject filter)	

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