AVL TECHNOLOGIES

Model 2060 / 1220 PIB F/A Auto Acquire Tri-Band Motorized FlyAway Antenna Reflector Type Optics Interchangeable Feeds Positioner Az/El Drive System Mount Geometry

2.0M 9 Segment AvL Carbon Fiber Offset, Prime Focus, 0.8 F/D C LP or CP, X CP, Ku LP Case-based Pack-in-the-Box Patented Roto-Lok® Positioner Elevation over Azimuth Polarization Adjustment Motorized Rotation of Linear Feeds

Mechanical

Travel	- Azimuth - Elevation (Operational) - Polarization (LP Feeds)	±200° 5°-90° with ±200° Az Travel 0°-90° with ±15° Az Travel ±95° Adjustable within <1°
Speed	- Slewing/Deploying - Peaking - Tracking	2°/second Az; 1°/second El 0.2°/second 0.1°/second
Emergency Drive		Hand Crank on Az, El; Hand Knob on Pol
Configu	ration – Rugged Cases, 1 eacl -1220 Motorized Positioner -Outriggers/Feed Boom -Reflector Panels -C/X Feeds (up to 3/case)	Positioner, Outriggers/Boom, Reflector: 26" x 24" x 30" 150 lbs. 71" x 18" x 17" 105 lbs. (includes Ku feed) 39" x 39" x 24" 170 lbs. Std. 150 lbs. Optional 43" x 27" 20" 70 lbs. typical
Interface	es -HPA Mounting -RF -Electrical	Feed boom or behind reflector (additional CFE case or optional case required) Coax (2) at base, Flex Waveguide from feed with groove 25 ft. Cable with Connectors for Controller
Set-up 1	īme	Less than 30 minutes
Environmental		
Wind	- Operational - Survival	30 mph gusting to 45 mph Anchoring required when gusts exceed 35 mph 80 mph (With anchoring in zenith stowed position)
Pointing Loss		1 dB typical, 2 dB max in operational wind (Ku-band)
Temperature - Operational - Survival		+14° to 125°F (-10° to 52°C) -40° to 140°F (-40° to 60°C)

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Controllers

Auto-Acquisition

Tracking **Operator Interface Positioning Accuracy** Input Power

One-button deploy with auto acquisition, peaking, and cross-pol adjustment using GPS, compass, and level-sensor inputs; certified for auto-commission on certain satellite systems Inclined orbit step-tracking with CFE or optional beacon receiver Front panel or Hand Held Remote or Remote PC options ± 0.2° Single phase 110/240 60/50 Hz 10 A peak, 2 A continuous

Transmit

C-Band

5.85 -6.425 Ghz 3.625-4.20 Ghz Frequency Polarization Linear or circular options 36.4 dBi 40.3 dBi Gain (Midband) 49° K Antenna Noise Temperature @ 20° El G/T with 20°K LNB, Midband 17.9 dB/° K IESS-601 and FCC 47CFR25,209 **Radiation Pattern Compliance** Circular Axial Ratio (within Pointing Cone) 2.3 dB 1.3 dB Linear Cross Pol Isolation (in Ptg. Cone) >30 dB >30 dB **Power Handling Capability** 1000 watts per port

Receive

Receive

46.0 dBi

25.7 dB/° K

57° K

35 dB

X-Band

Frequency Polarization Gain (Midband) Antenna Noise Temperature @ 20° El G/T with 55°K LNB. Midband **Radiation Pattern Compliance** Axial Ratio within Tracking Cone **Power Handling Capability**

Ku-Band

Frequency Polarization Gain (Midband) Antenna Noise Temperature @ 20° G/T with 50°K LNB, Midband **Radiation Pattern Compliance** Cross Pol Isolation - on-axis - within pointing cone 28 dB standard - within pointing cone 25 dB MM option Power Handling Capability

Receive **Transmit** 7.25 7.75 Ghz 7.9 - 8.4 Ghz **Circular RHCP or LHCP** 42.8 dBi 42.0 dBi 50° K 21.7 dB/° K MIL – STD – 188-164A 1.21 dB 2.0 dB 1000 watts per port

Transmit 13.75-14.5 Ghz 10.95-12.75 Ghz Orthogonal Linear, Optional Co-pol Linear 47.6 dBi

IESS-601 Std. G and FCC 47CFR25.209 35 dB 30 dB standard 35 dB MM option 500 watts per port



Digisat International Inc 4195 W. New Haven Ave., Suite Melbourne, FL 32904 -321-676-5250 Email: sales@digisat.org http://www.digisat.org