IPaccess international

MODEL1078

MOBILE VSAT

1.0m Motorized Transportable Vehicle-Mount Antenna

UNIQUE FEATURES
1.0m AvL Engineered Composite Reflector
Zero Backlash AvL Cable Drive
Compact/Rugged Pol Gear Drive
Optional Rotary Joint on Pol Axis with Flex W/G to BUC
"One-Button" Auto-Acquisition

STANDARD Rx/Tx FEED
2-Port Ku-Band Precision (standard Cross-Pol comp.)

POLARIZATION ADJUSTMENT
Motorized Worm Gear Drive

STANDARD COLORIZATION
AvL Metallic Gray (optional colors avail-

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MECHANICAL

AZ/EL DRIVE --- Motorized AvL Zero Backlash Cable Drive (Patent Pending)

POLARIZATION DRIVE SYSTEM --- Motorized Worm Gear Drive

REFLECTOR CONSTRUCTION --- 1.0m Single Piece AvL Engineered Composite

AXIS TRAVEL:

Azimuth --- 400° (±200°)

Elevation --- 0-90° antenna bore sight (true elevation readout from calibrated inclinometer)

Polarization --- ±95°

AZ/EL SPEED:

Slewing/Deploying (typical) --- 2°/second Az

Peaking (typical) --- 0.2°/second

MOTORS --- 28 VDC Variable Speed, Constant Torque

RF INTERFACE:

BUC/HPA Mounting --- Feed Boom (maximum weight 15 lbs.(6.8 kg))

Max dimensions for BUC mounting on Feed Boom --- 15 L x 11.5 W x 6 H in. (38 L x 29 W x 15 H cm)

Feed Tx --- WR75 Flat Flange; Optional Polarization Rotary Joint w/flex waveguide from feed, WR75

COAX --- Two Type F connectors on panel at antenna base

ELECTRICAL INTERFACE --- One 25 ft. (8 m) cable with connector from base connector panel to controller

MANUAL/EMERGENCY DRIVE --- Hand crank input on Az, El and Pol axes

WEIGHT (APPROX) --- 110 lbs. as shown, varies depending on options selected

STOWED DIMENSIONS --- 61.5 L x 40 W x 13.5 H inches (156 L x 102 W x 34 H cm)

TIME TO ACQUISITION --- Less than 15 minutes, 8 minutes typical

MOUNTING --- Pallet for vehicle roof mounting

ENVIRONMENTAL

WIND - SURVIVAL --- Deployed: 60 mph (97 kph); Stowed: 100 mph (161 kph)

WIND- OPERATIONAL --- 45 mph (72 kph)

POINTING LOSS IN WIND (Ku RX):

20 mph (32 kph) --- 0.3 dB typical

30 mph gusting to 45 mph (48 kph gusting to 56 kph) --- 0.8 dB typical

TEMPERATURE:

Operational --- -22° to 125° F (-30° to 52° C)

Survival --- -40° to 140° F (-40° to 60° C)