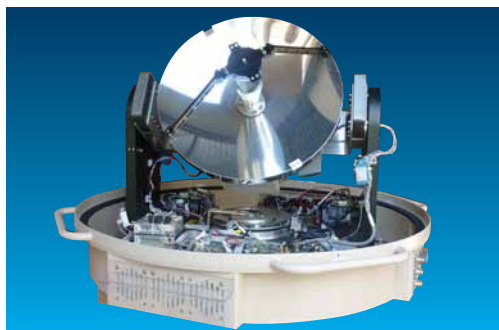




### Terminal Features:

- Parabolic reflector in Cassegrain configuration
- Closed-loop tracking using beacon
- Proprietary beacon signal processing
- COTS motors, motor drivers, encoders, gyros
- Proprietary motion control system implemented in FPGA
- BUC and LNBS repackaged versions of standard EM Solutions product



Tx Frequency Band	30.0 to 31.0 GHz
Rx Frequency Band	20.2 to 21.2 GHz
Reflector Size	480 mm
Tx Saturated Power	4 Watts (higher power available up to 8W Linear)
G/T	>12 dB/K
EIRP	46 dBW (based on 4 Watts Tx)
Beamwidth, 3dB Tx and Rx	1.5 degree (Tx); 2.2 degree (Rx)
Sidelobes (Tx)	Mil-Std-188-164
Polarisation Tx and Rx	LHCP or RHCP (Not Simultaneous, Factory Set)
Axial Ratio	Tx: <1 dB Rx: < 1.5 dB
Azimuth Tracking	360 degree continuous
Elevation	± 90 degree
Tracking Limits Tx (Inhibit)	1 dB (Tx) Pointing Loss
Tracking Limits Rx (Closed-Loop)	3 dB (Rx) Pointing Loss
Tracking Acquisition	< 5 minute cold start-up and while moving < 5 sec due to blockage (<1 min) after initial lock
Tracking Performance	100 km/hr Seal Road; 20 km/hr Off-road
IF Interface	1.0 to 2.0 GHz
Height	< 750 mm
Diameter	< 1000 mm
Weight	< 150 kg
Power Supply Voltage and Watts	28 VDC, < 500 W Peak