Satellite Communications

SGoSat ESA

OTM Ku

Optimized in weight and size, are compliant with the highest standards, including MIL-STD-810 and MIL-STD-461, EN 50155 (railway). Person portable/OTM Ku- Band LEO terminals enable high data-rate communications over LEO satellite networks.

Land

Sea

Air

Comms on the move for smaller and smarter vehicles, ships and aircraft

Antenna: Electronic Steerable Antenna with Analog Beamforming

Modem integrated: Modem integrated inside enclosure, as required by the satellite provider.

Effective SWaP-C performance: Optimal trade-off among size, weight and power with the best effective cost.

REF: SAT 0225

SGoSat ESA OTM Ku

ACU with GPS dual antenna and inertial sensors: Available for OTM terminals.1 kHz attitude sample from INS. Open loop and closed loop based on modem.

Pointing loss (RMS) < 0.1° Re-acquisition quasi-instantaneous. Immune to frequency inhibitors.



Ku-band terminal perfomance				
Product Family	**SGoPack LEO**		**SGoSat GEO/LEO**	
Parameter	**Manpack FD9**	**Manpack HD9**	**OTM FD9**	**OTM FD12***
Transmission frequencies	13.75 - 14.5 Ghz		13.75 - 14.5 Ghz	
Reception frequencies	10.7 - 12.75 Ghz		10.7 - 12.75 Ghz	
EIRP	~41.0 dBW @ boresight	~36.0 dBW @ boresight	~44.0 dBW @ boresight	
	~36.0 dBW @ 30° EL	~33.1 dBW @ 30° EL	~39.0 dBW @ 30° EL	
G/T	~9.5 dB/K @ boresight		~9.5 dB/K @ boresight	~12 dB/K @ boresight
	~5.5 dB/K @ 30° EL		~5.5 dB/K @ 30° EL	~8 dB/K @ 30° EL
Polarization	RHCP/LHCP			
Power	190 W	140 W	190 W	400 W
Autonomy	90 minutes	120 minutes	N/A	N/A
Normative	ITU-R 1503			
Terminal dimensions	380mm Wx480mm	560mm W x 380mm	760mm Wx480mm	985 mm Wx590mm
	L x 100mm H (folded)	L x 60mm H	L x 70mm H (folded)	L x 70mm H
Weight	11.5 kg	8 kg	12 kg	25 kg
* 2 Tx panels and 2 Rx panels				

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Headquarters:
C/ Marie Curie 19, 4ª floor
28521 Rivas-Vaciamadrid (Madrid)
Spain
grupooesia.com

Contact:
producto@oesia.com
+34 916 617 161

More information:
SatCom