



SGoSat UPRo

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

Main Functional Capabilities:

Balancing throughput and form factor

Algorithms for a fast acquisition, and very high efficiency pointing and tracking operation

Inertial sensors:
Gyros,
accelerometers
magnetometers and
barometer

Complies with the MIL-STD-188-164C; MIL-STD-810H and RTCA/DO-160G

Capability of working in both military and civil Ka-band (19.2 – 21.2 GHz in RX and 29 – 31 GHz in TX)

Axial ratio < 1 dB

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RadioFrequency:

	Specs EPA	Specs PPA
EIRP (dBW)	45.2 dBW at 10° EL 46.2 dBW at 20° EL 46.9 dBW at 30° EL 47.7 dBW at 60° EL	46.0 dBW
G/T (dB/K) at flight altitude	7.0 dB/K at 10° EL 8.0 dB/K at 20° EL 8.8 dB/K at 30° EL 9.5 dB/K at 60° EL	9.0 dB/K
Gain Tx (dB)	32.9 dB min at 10° EL	35.0 dB
Gain Rx (dB)	31.1 dB min at 10° EL	31.2 dB
Axial ratio Tx (dB)	2 dB max	1 dB
Axial ratio Rx (dB)	2 dB max	1 dB
ESD Normative	MIL-STD 188-164C	MIL-STD 188-164C
Thermal management	Improvement because the amplifiers are distributed in the whole area of the antenna	SSPA in a module (BUC)

*Parameter without radome losses

Weight

Weight of PPA	9.0	Total Kg.
Weight of EPA	9.5	Total Kg.

Power consumption of PPA

Nominal in tracking mode	235	W
Maximum	285	W
Inrush current	314	W

Power consumption of EPA

Nominal in tracking mode	450	W
Maximum	500	W
Inrush current	530	W

We accompany you throughout the entire product life cycle

-  Design
-  Development,
-  QUAL & CERT,
-  Manufacturing,
-  In-service support,
-  Enhancements



Parque Tecnológico Tecnogetafe
Avenida Rita Levi Montalcini 2, 28906 Getafe (Madrid), Spain
Telephone: +34 91 380 20 22

grupooesia.com

inster.es

info@inster.com