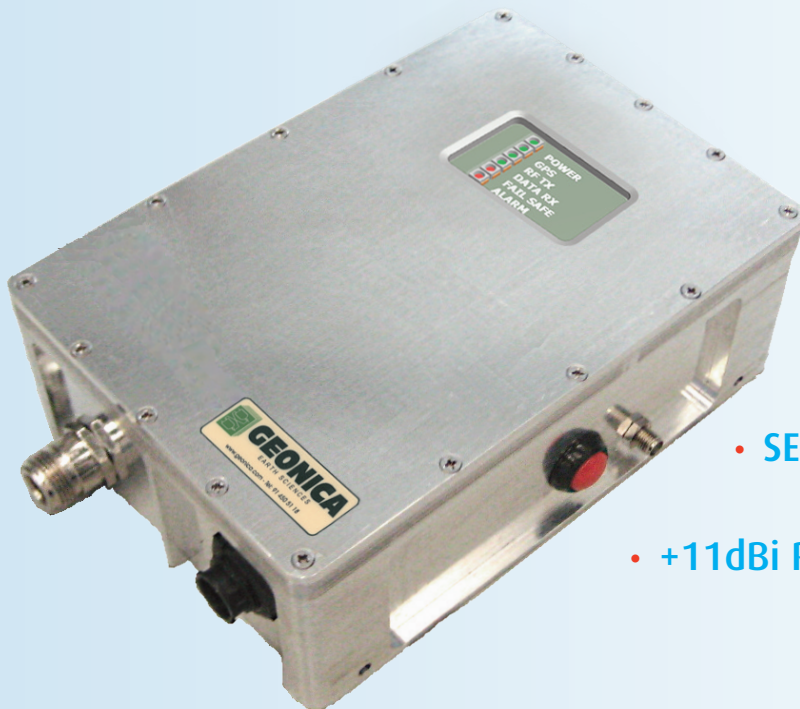


# GEONICA SAT1-1 INSAT SATELLITE TRANSMITTER

DESIGNED TO OPERATE AS DATA COLLECTION PLATFORM WITH GEONICA'S  
METEODATA/HYDRODATA-2000/3000 DATALOGGER



- HIGH PERFORMANCE
- MAINTENANCE-FREE
- SELF-TIMED OPERATION WITH GPS
- +11dBi RUGGERIZED CROSS YAGI ANTENNA

## PRELIMINARY FEATURES / FACT SHEET

- Uplink environmental data transmission in 401-403 MHz UHF band.
- Compatible with **INSAT-3A**, **KALPANA-1**, **INSAT-3D** and upcoming **INSAT-3DR DRTs**.
- 100 Hz channel raster.
- Frequency stability better than  $\pm 1$  ppm.
- Automatic frequency drift correction.
- **TDMA** Communication Protocol with customizable burst format.
- GPS Time Synchronization guarantees time accuracy better than 1 us.
- **4800 bps** INSAT transmission.
- **Output power configurable from 3W to 10W** in 0.5W steps.
- Output power stability better than  $\pm 1$ dB.
- **Ultra low power consumption** less than 30 mW @ 12VDC supply.
- Configuration and software upgrade in the field using serial RS232 interface.
- Failsafe feature to prevent continuous transmission.
- Manual or automatic failsafe condition exit handling.
- **Fully maintenance-free**, self-timed operation.
- Compact-sized, IP66/IP67 enclosure.
- Operating temperature range: -40°C to +55°C.
- **EMI/ESD**: in accordance with IEC/EN 61000-4, IEC/EN 61000-6-x, CISPR 11/EN 55011 and IEC/EN 61326.
- **Safety**: in accordance with IEC/EN 60950 and IEC/EN 61010.
- Designed and manufactured in Spain by GEONICA following exacting **ISO9001** quality standards.