



SPACEMANIC

Celeste

The GNSS receiver

Multi-GNSS receiver module suitable for nano-satellite position acquisition and determination

FEATURES

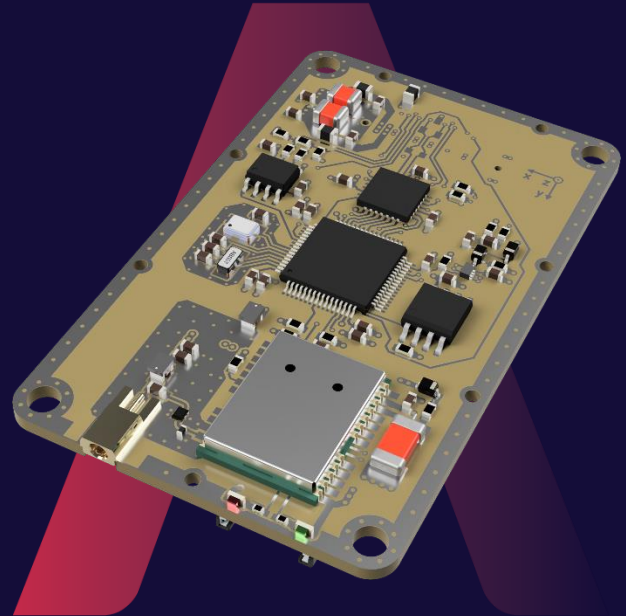
- Plug&Play design
- Compatible with Spacemanic cubesat standard
- Compatible with cubesat components from other vendors
- Robust design
- GPS/GLONASS/BeiDou/Galileo
- Cubesat Space Protocol compatible
- Works directly with active or passive antenna
- New updated version from 2022

PRODUCT PROPERTIES

- Operating temperature: -40°C to +85°C
- Dimensions: 67x42x7 mm
- Power supply:
 - 3.3V
 - 5V (if CAN required)
- Mass: 25g
- Power consumption: 250mW average

SOFTWARE

- Cubesat Space Protocol
- Command line interface



FUNCTIONAL CHARACTERISTICS

- Maximum velocity 10km/s
- -148dBm cold start sensitivity
- -165dBm tracking sensitivity
- 29 seconds cold start TTFF
- 1 second hot start
- 2m CEP accuracy

INTERFACES

- 1 x I2C (CSP)
- 1 x RS485 (CSP)
- 1 x CAN (CSP)
- 2 x UART
 - 1 x Command Line Interface
 - 1 x direct access to GNSS receiver IC
- PPS output
- System clock output
- External reset input
- MMCX antenna connector
- Debug LEDs

TESTING & HERITAGE

- Flight Heritage Hardware
- Successful vibration & heated vacuum tests