



SPACEMANIC

Globe-TX

Globalstar transmitter

SM-GLBTX-MSP430-GLBLSTR

Transmitter module for small-packet data transfer from nano-satellite to Earth over Globalstar satellite network.

FEATURES

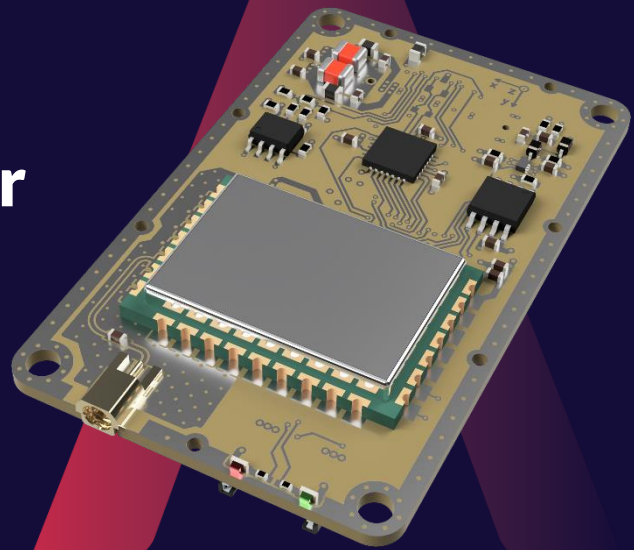
- Plug&Play design
- Compatible with Spacemanic cubesat standard
- Compatible with cubesat components from other vendors
- Robust design
- Cubesat Space Protocol compatible

PRODUCT PROPERTIES

- Operating temperature: -40°C to +85°C
- Dimensions: 67x42x9 mm
- Power supply: 3.3V, 5V (CAN)
- Mass: 30g
- Power consumption: 100mW average

SOFTWARE

- Cubesat Space Protocol
- Command line interface



FUNCTIONAL CHARACTERISTICS

- Transmitt power 19dBm
- Transmitt mode current 320mA
- Active mode current 2.3mA
- Sleep mode current 8uA

INTERFACES

- 1 x I2C
- 1 x RS485
- 1 x UART
- 1 x CAN
- 4 x GPIO
- PPS input
- System clock output
- External reset input
- JTAG on separated connector
- MMCX antenna connector
- Debug LEDs

TESTING & HERITAGE

- Based on flight Heritage Hardware
- Successful vibration & heated vacuum tests