

UHF Band Transceiver



Electrical features

- Redundancy support: hot and cold
- Health telemetry including temperature and SWR
- 2x CAN, 2x M-LVDS, 2x Trig./Sync.
- Input voltage: 5 V
- Power @RX/TX: 315 / 1950 mW
- MISRA C:2012 coding standard compliant firmware
- DO-178B/C upon request

Radio Frequency features

- Frequency range: 399-401 MHz or 435-438 MHz
- Modulation: 2-OOK, 2-FSK, 2-GFSK, up to 100 kbps
- Transmit power: up to 1000 mW
- Channel coding: RS, BCH (opt. Viterbi)
- Encryption: AES-128 (opt. AES-256)
- Whitening and Scrambling
- Protocol: CCSDS / ECSS compatibility
- Operation Mode: half-duplex

Mechanical features

- Mass: 125g
- Dimensions: 80.6 x 77 x 9.55 mm³
- Space qualified Nano D-SUB connector
- MCX RF connector (output matched to 50 Ohm)

Thermal features

- Conduction cooled Aluminum shielding case
- Power consumption max. 2.5 W