

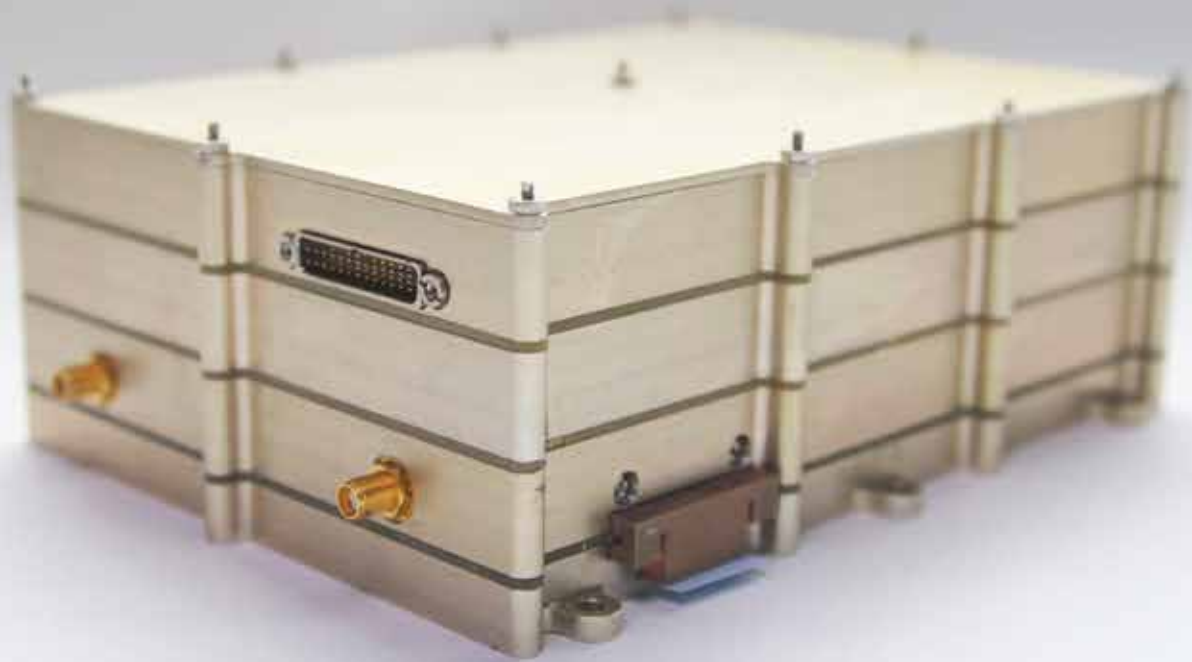
COMMAND TRANSCEIVER VHF/UHF

The **CTR family** is based on a common modem unit (MU) with either a VHF/UHF- or an S-Band synthesized RF unit. The CTR-VU has a modular sandwiched design with Eurocard 3U sized footprint manufactured in aluminium with Alodine® surface coating. The CTR-VU power and communication interfaces are optimized for the Spaceteq standard bus, but are easily customized for any typical satellite bus.



Features/Benefits

- Proven heritage (SumbandilaSat)
- Mode J: 2 m uplink / 70 cm downlink, full duplex
- Software adjustable transmit power
- Dual CAN communication bus
- Optional Spacewire interface
- High priority discrete command outputs
- Various operational and test modes



SPECIFICATIONS

CTR-VU

Performance

Communication bit rate & modulation	10 kbps, full duplex; G3RUH FSK
Rx carrier tracking range	+ - 3 kHz
Transmitter power	Adjustable, 5 W maximum
Transmitter band	400.000 – 401.000 MHz with 25 kHz steps,
Receiver sensitivity	-116 dBm (12 dB SINAD/1E-3 BER)
Receiver band	148.000 – 149.900 MHz with 25 kHz steps,
Design Life	7 years

Mechanical

Dimensions	200 x 140 x 65mm
Weight	1.18kg
Interface	6 points, M4 screws

Interfaces

Unregulated supply	28V nominal (22-34V)
Communication interface	Dual CAN communication bus Dual Spacewire (optional)
Direct control lines	13x out, 1x input (low power)
Power consumption	<5 W Rx only; <20W full duplex at maximum Tx power

Environmental

Qualification Temperature	0°C to +60°C
Random Vibration (Qualification)	14g RMS