

# COMMAND TRANSCEIVER S-BAND

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-S has a modular sandwiched design with Eurocard 3U sized footprint manufactured in aluminium with Alodine® surface coating. The CTR-S power and communication interfaces are optimized for the Spaceteq standard bus, but are easily customized for any typical satellite bus.



## Features/Benefits

- New generation modular design
- Software adjustable transmit power
- Dual CAN communication bus
- Optional Spacewire interface
- High priority discrete command outputs
- Various operational and test modes



## SPECIFICATIONS

## CTR-S

### Performance

Communication bit rate & modulation	10 kbps up; 10-100 kbps down, full duplex; GFSK
Rx carrier tracking range	+ - 26 kHz
Transmitter power	Adjustable, 0.5 W maximum
Transmitter band	2205 - 2246 MHz with 25 kHz steps, synthesized
Receiver sensitivity	-112 dBm (1E-3 BER)
Receiver band	2030 - 2105 MHz with 25 kHz steps, synthesized
Design Life	7 years

### Mechanical

Dimensions	200 x 140 x 95mm
Weight	1.80 kg including Diplexer or (1.24 kg without Diplexer)
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; <11W full duplex at maximum Tx power

### Environmental

Operating Temperature	-10°C to +60°C
Random Vibration (Qualification)	14g RMS