

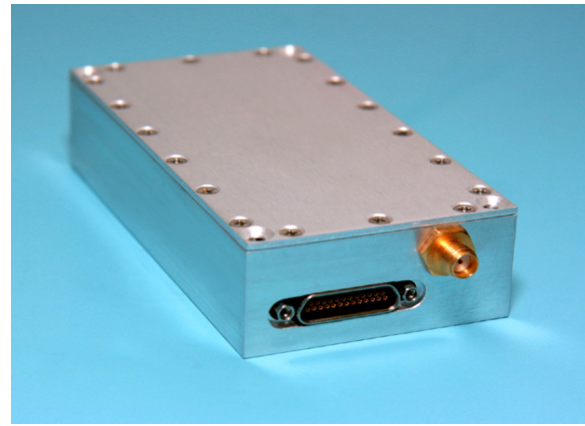
## RRM-450

### Radio Reset Modem

Crystal controlled UHF receiver, 9600bps GMSK modem, and radiation tolerant FPGA controller in a single enclosure.

A standalone, low-power, small size, UHF command, control and remote reset device.

Provides secure backdoor access to your satellite to upload code and/or control multiple payloads.



#### General Specifications:

<b>Input Voltage:</b>	5-15V Nominal
<b>Power Consumption:</b>	~100 mW
<b>Connectors:</b>	25-pin Micro-D Female and SMA Female
<b>Operating Temperature:</b>	-20°C to +60°C
<b>Storage Temperature:</b>	-30°C to +80°C
<b>Size:</b>	100.08 mm x 52.83 mm x 24.26 mm
<b>Mass:</b>	~200 grams

#### FM Radio Specifications:

<b>Sensitivity:</b>	-120dBm for 12dB SINAD (-133dBm minimum discernible)
<b>IF/ Bandwidth:</b>	21.4 MHz and 455 KHz at 15 KHz or 30 KHz
<b>Selectivity:</b>	>55dB
<b>Number of UHF Channels:</b>	1 crystal controlled channel between 400 MHz to 470 MHz
<b>Discriminator output:</b>	(Analog) DC Coupled and Buffered 1 V <sub>p-p</sub> signal
<b>Frequency Stability:</b>	±5ppm from -10°C to +60°C
<b>Long Term Frequency accuracy:</b>	<3ppm in 7 years

#### Modem/FPGA Specifications:

<b>Fixed Data Rate:</b>	9600 bps GMSK demodulator
<b>Clock and Data Output Level:</b>	0-3.3 V Clock & Data at 9600 bps (to flight CPU)
<b>Discrete Output Signal Levels:</b>	0/3.3 Volts (FET ground closure switches for reset & control)
<b>Discrete I/O Outputs:</b>	6 Latched; 4 Timed/Latched & 6 Pulsed (one-shots)
<b>Command sequences:</b>	Unique 9000 bit polarized sequence for each command

Specifications subject to change without notice.