

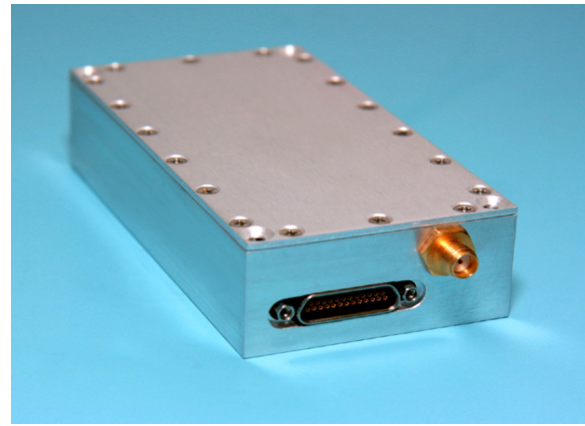
RRM-450

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:

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

FM Radio Specifications:

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

Modem/FPGA Specifications:

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

Specifications subject to change without notice.