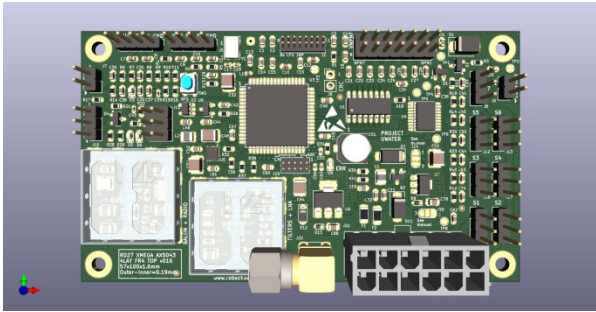
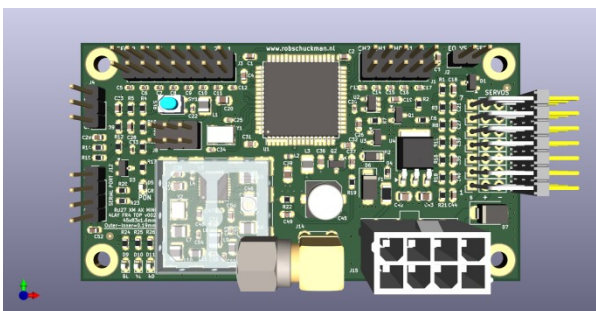
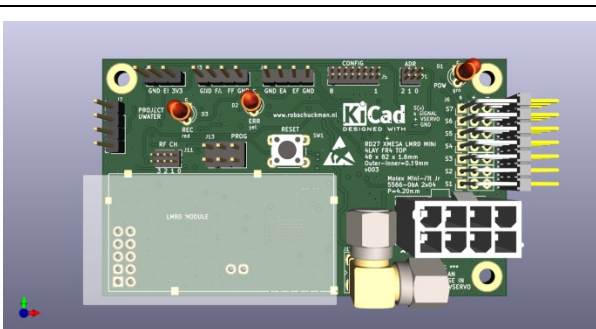


Receiver overview

General receiver properties			
- Shielded RF section - Seven servo channels - Same communication protocol - Adjustable low battery threshold VS - Active low error input (surfaces vessel) - Low battery and RF signal loss safety feature		4-layer PCB, 50Ω characteristic impedance RF tracks - Servo supply voltage (VSERVO) not protected by a fuse - Simplex/one-way digital radio communication with CRC 27MHz, 6CH, FSK, 2400bit/s, BW=10kHz, sensitivity: -120dB - Channels: 26.995, 27.045, 27.095, 27.145, 27.195, 27.255 MHz - VS¹, on-board fuse, reverse polarity- and over voltage protection - VS: 6-12V re-chargeable battery (cells: 3/6 lead acid, 2/3 Lithium, 6/7/8 NiMH)	
ONSEMI A5043 transceiver IC + extensive ² RF front-end		Standard series Common properties 57x100mm 4x end-limit input³ - Does not support telemetry - Small configuration jumpers - Does not support auxiliary PCB - Buffered 3.3V or 5.0V servo pulses - Reversed polarity protection VNPN - Active low error output (NPN, 24V/300mA)⁴ 7x digital output (NPN) with a common fuse - Separate supply connections for VS, VNPN (ULN2003) and VSERVO. - Supports multiple ballast systems (determined by software)	
Radiometrix LMRO receiver module			
ONSEMI AX5043 transceiver IC + standard RF front-end		Individual properties 45x83mm - No end-limit inputs - Large configuration jumpers - Active low error output without fuse (NPN, 24V/300mA) - Hardware supports half-duplex communication (telemetry)⁵	Mini-series Common properties 3.3V servo pulses - Supports auxiliary PCB⁶ - Supports piston tanks only - No digital outputs (ULN2003) - Separate supply connections for VS & VSERVO.
Radiometrix LMRO receiver module		Individual properties 48x82mm 4x end-limit input - Small configuration jumpers - No error output - Does not support telemetry	

¹ Supply voltage for on board electronics

² Amongst others includes a band pass filter and LNA (the latter to compensate for filter losses)

³ Can for instance be used to stop piston tanks at their end position

⁴ To launch for instance a buoy (not protected by fuse)

⁵ RF transmit power = 30mW@50Ω

⁶ 26x59mm, 3.3V, connects to receiver via 4w flat cable, supports: 3D accelerometer, pressure sensor, 2x water sensor and 4x end-limit input