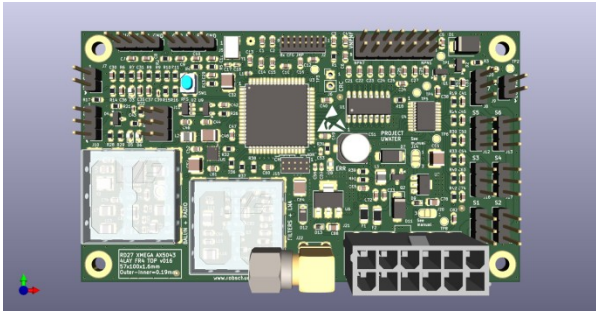

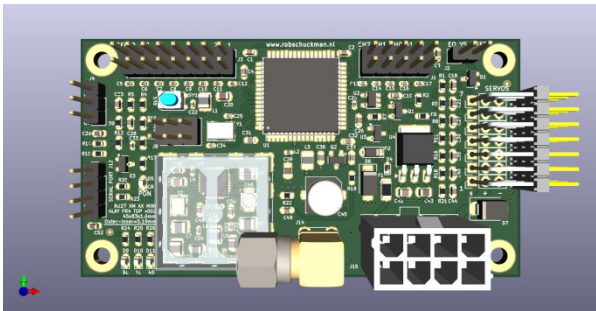
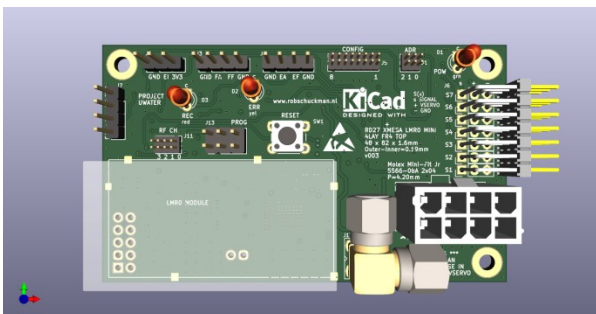


Receiver overview

General receiver properties			
<ul style="list-style-type: none"> Shielded RF section Seven servo channels Does not support telemetry Servo supply voltage not fused Identical communication protocol Active low error input (surfaces vessel) 		<ul style="list-style-type: none"> Low battery and RF signal loss safety feature Simplex/one-way digital radio communication Reverse polarity and over voltage protection VS¹ 4-layer PCB, 50Ω characteristic impedance RF tracks 27MC, 6ch, FSK, 2400bit/s, BW=10kHz, sensitivity: -120dB VS: 6-12V re-chargeable battery (Cells: 3/6 lead acid, 2/3 Lithium, 6/7/8 NiMH) Channels: 26.995, 27.045, 27.095, 27.145, 27.195, 27.255 MHz 	
<p>ONSEMI A5043 transceiver IC</p> <p>+ extensive² RF front-end</p>		<p>Common properties</p> <ul style="list-style-type: none"> 57x100mm 3D accelerator Standard series 4x end-limit input³ 7x digital output (ULN2003) Small configuration jumpers Supports serial configuration Does not support auxiliary PCB Supports multiple ballast systems Buffered 3.3V or 5.0V servo pulses Reversed polarity protection VNPN Active low error output (NPN, 24V/300mA)⁴ Fused VNPN on digital outputs connector (3A slow blow) Separate connections for VS, VNPN (ULN2003) and VSERVO 	
<p>Radiometrix LMR0 receiver module</p>			
<p>ONSEMI AX5043 transceiver IC</p> <p>+ standard RF front-end</p> <p>See also note⁵</p>		<p>Individual properties</p> <ul style="list-style-type: none"> 45x83mm No end-limit inputs Large configuration jumpers Active low error output (NPN, 24V/300mA) 	<p>Common properties</p> <ul style="list-style-type: none"> Mini series 3.3V servo pulses Supports piston tanks No serial configuration Supports auxiliary PCB⁶ No digital outputs (ULN2003) Separate supply connections for VS & VSERVO
<p>Radiometrix LMR0 receiver module</p>		<p>Individual properties</p> <ul style="list-style-type: none"> 48x82mm 4x end-limit input Small configuration jumpers No error output 	

¹ Supply voltage for on board electronics (VNPN and/or VSERVO can/may equal VS)

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

⁵ Hardware supports half-duplex digital radio communication (transmit power=3mW@50Ω)

⁶ 25x60mm, 3.3V, connects to receiver via 4w flat cable, supports: 3D accelerometer, pressure sensor, 2x water sensor and 4x end-limit input