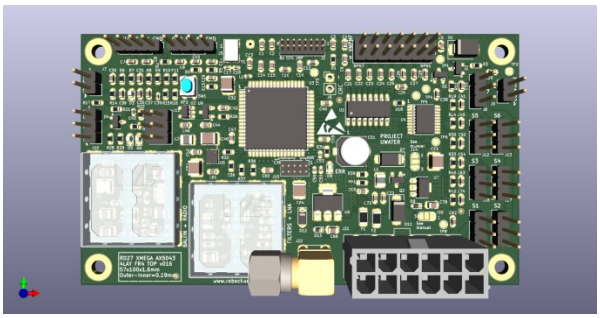
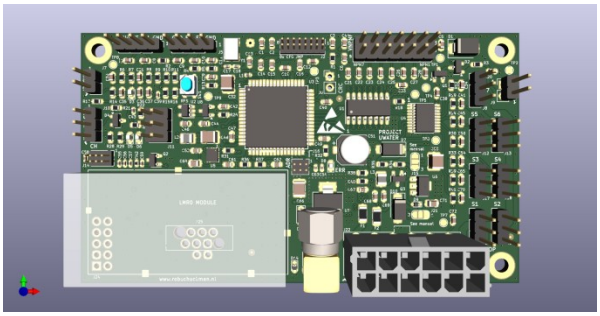
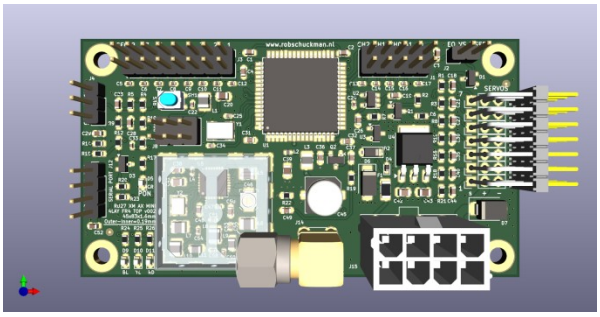
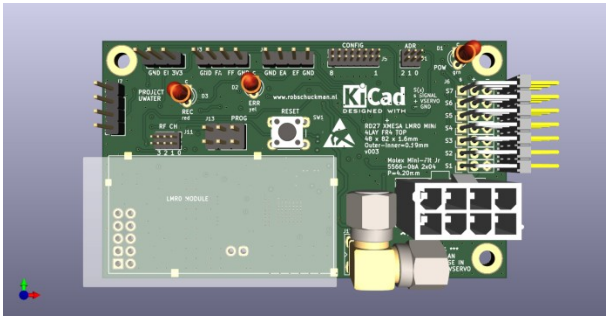
Receiver overview

<table>
<tr><td colspan="4">General receiver properties</td></tr>
<tr><td colspan="2">Shielded RF section
Seven servo channels
Does not support telemetry
Error input (surfaces vessel)
Error output (NPN, to launch a buoy)</td><td colspan="2">Low battery and RF signal loss safety feature
Simplex/one-way digital radio communication
27MHz, 6 channels, FSK, 2400bit/s, BW=10kHz
Reverse polarity and over voltage protection VS[1]
VS: 6-12V re-chargeable battery (lead acid, Lithium, NiMH)</td></tr>
<tr><td rowspan="2">Standard series</td><td>ONSEMI A5043 transceiver IC with extensive[2] RF front-end</td><td>  </td><td rowspan="2">Common properties
57x100mm
3D accelerator
4x end-limit input[3]
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
Separate connections for VS, VNPN (ULN2003) and VSERVO</td></tr>
<tr><td>Radiometrix LMR0 receiver module</td><td>  </td></tr>
<tr><td rowspan="2">Mini series</td><td>ONSEMI AX5043 transceiver IC with standard RF front-end

See note[4]</td><td>  </td><td>Main properties
45x83mm
Supports piston tanks
No serial configuration
Supports auxiliary PCB[5]
Fixed 3.3V servo pulses
Large configuration jumpers
No digital outputs (ULN2003)
Separate connections VS & VSERVO</td></tr>
<tr><td>Radiometrix LMR0 receiver module</td><td>  </td><td>Main properties
48x82mm
4x end-limit input
Supports piston tanks
No serial configuration
Supports auxiliary PCB
Fixed 3.3V servo pulses
Small configuration jumpers
No digital outputs (ULN2003)
Separate connections VS & VSERVO</td></tr>
</table>

[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] Hardware supports half-duplex digital radio communication (transmit power=3mW@50Ω)
[5] 25x60mm, 3.3V, connects to receiver via 4w flat cable, supports: 3D accelerometer, pressure sensor, 2x water sensor and 4x end-limit input