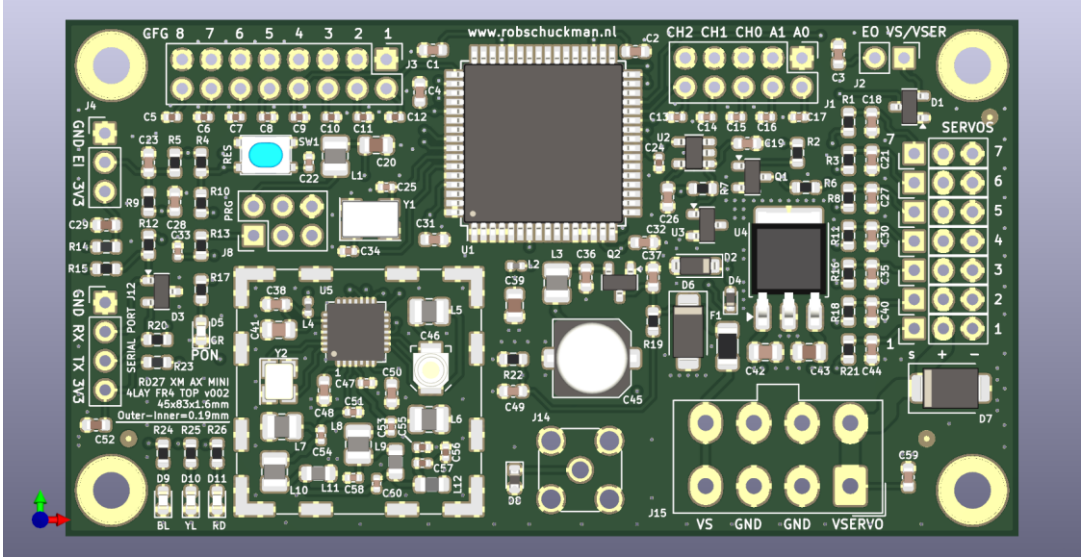


Flyer 27MHz mini receiver for remote control purposes of a model submarine (based on the AX5043 transceiver IC)

Without auxiliary PCB, without digital outputs (ULN2003/7xNPN)

Supports piston tanks only

4x electrical isolated mounting hole that can be connected to GND via solder jumper on back.	CFG 8-1 = Configuration 1=Enable reverse thrust 2 =X-rudder ¹ (uses also free 1) 3=Low battery guard VS 4=Low battery guard VS 5=Low battery guard VS 6=Empty tanks direct on no RF 7=Two propellers ² (uses also free 1) 8=Invert reverse thrust	CH2-CH1-CH0 RF channel (0-5). Must match transmitter. 000=CH0=26.995MHz 001=CH1=27.045MHz 010=CH2=27.095 MHz 011=CH3=27.145 MHz 100=CH4=27.195 MHz 101=CH5=27.255 MHz	A1-A0 Protocol address (0-3). Must match transmitter. 00=ADRO 01=ADRI 10=ADR2 11=ADR3	EO ³ = 6-24V/0.3A error output (buoy release) Activates after EI being active for 20s	No digital outputs (ULN2003/NPN)
EI = Error input (active low). Response time=2s 3V3 (10mA) available for interface electronics. Rx used for auxiliary PCB Tx used for printing receiver information					7x 1-2ms servo pulse (3V3). Low pass output filter (220 Ohm/ 1nF). 7=aftPiston 6= Propeller 5=fwdPiston 4=Free 2 3=Free 1⁴ 2=Dive rud. 1=Left/right
	LEDs Grn = Power on indicator Blue = Auto ranging successful Yel = Errors (low batt., no RF, EI) Red = Data receive	Configuration (CFG 543) 000= Low battery guard VS off 001=5.75V (6.00V, 3 cells, Lead acid) 010=6.90V (7.20V, 6 cells, NiMH/NiCD) 011=6.60V (7.40V, 2 cells, Lithium/LiPo) 100=8.05V (8.40V, 7 cells, NiMH/NiCD) 101=9.20V (9.60V, 8 cells, NiMH/NiCD) 110=9.90V (11.1V, 3 cells, Lithium/LiPo) 111=10.5V (12.0V, 6 cells, Lead acid)	VS: 6-12V (fused) VSERVO: 6-24V (non-fused). VSERVO: supports high current (8A max continuously). VS: low battery guard applicable.		
Outer PCB dimension: 45x83mm Mounting holes: 4x3.2mm, centre=37x75mm, 4mm from edge of PCB. Non-fatal error⁵: RF signal loss results in propeller and pistons to halt until RF signal is restored. Limitations: does not support digital outputs (ULN2003/NPN), supports buoyancy system with piston tanks only. Fatal errors⁶: a low battery and/or an active EI input causes the vessel to surface after which further diving is prohibited (reset required). Error input (EI): water detector and/or max depth. Supports open collector/NPN and normally open switches (active low). Signals can be paralleled. No auxiliary PCB but using piston tanks, use two end-limit switches with a diode over NC contact in series with motor wiring to stop piston at both end position.					

¹ Cannot be used together with two propellers.

² Cannot be used together with X-rudder.

³ Activates after EI is uninterrupted active for 20s

⁴ Is used with two propellers or X-rudder.

⁵ Changes to a fatal error after 20s of uninterrupted RF signal loss.

⁶ Direction rudder (L/R) and propeller remains controllable.