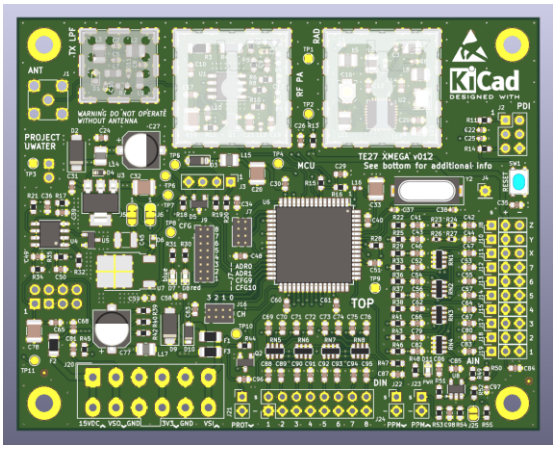
Overview transmitter PCB

Transmitter PCB	Radio	Software	Specs	CONFIG jumpers
 Separate power supply connections for RF power amplifier and remaining electronics. Supports serial configuration as an alternative to the hassle with small jumpers. Note when equipped with the Radiometrix LMT0 module, serial configuration of the frequency is not supported (use the jumpers instead).	Equipped with ONSEMI AX5043 transceiver IC 50mW CE pre-compliance Equipped with Radiometrix LMT0 module at the back 100mW CE approved	Independent of ballast system Depends on used radio	15VDC regulated 75x95mm Simplex/1-way communication Frequencies [MHz]: • 26.995 • 27.045 • 27.095 • 27.145 • 27.195 • 27.255 FSK modulation BW=10kHz 50Ω antenna impedance 7x analogue input 8x digital input 1x PPM input 1x PPM output 1x USART (3V3)	System 1 = Invert free1&2 2 = Invert piston tank(s) 3 = Invert dive plane 4 = Invert rudder (L/R) 5 = Invert propulsion 6 = Extended servo pulses OTA 7 = Speed adjust after tank OTA 8 = Invert piston speed balance/pump speed X = Analogue gain joysticks Y = PPM signal source Z = Invert PPM 3x RF channel 2x Protocol address

Function overview[1]

ANA/DIG	n	Ballast system with piston tanks			Ballast tanks with pumps and valves		
		Transmitter input		Receiver output	Transmitter input		Receiver output
Analogue	1	Left/right	Joystick	Left/right	Left/right	Joystick	Left/right
	2	Dive rudder	Joystick	Dive rudder	Dive rudder	Joystick	Dive rudder
(servos)	3	Free 1	Potmeter	Free 1	Free 1	Potmeter	Free 1
	4	Free 2	Potmeter	Free 2	Free 2	Potmeter	Free 2
	5	Piston tank speed	Joystick	Piston tank forward	Not used	NA	Pump forward
	6	Propeller	Joystick	Propeller	Propeller	Joystick	Propeller
	7	Piston tank speed balance	Potmeter	Piston tank after	Pump speed	Potmeter	Pump after
Digital	1	DIN 1		NPN 1	DIN 1		NPN 1
	2	DIN 2		NPN 2	DIN 2		NPN 2
(switches and push buttons)	3	DIN 3		NPN 3	DIN 3		NPN 3
	4	DIN 4		NPN 4	Not used		Valve empty forward
	5	DIN 5		NPN 5	Empty ballast tank(s)		Valve empty after
	6	DIN 6		NPN 6	Fill ballast tank(s)		Valve fill forward
	7	Halves propeller and piston tank speed		NPN 7[2]	Halves propeller speed		Valve fill after
	8[3]	Disable piston tank control		NA	Disable pumps and valves		NA

[1] Applicable to receivers with digital outputs (standard series)
[2] Operated together with NPN6 for extra heavy load switching
[3] Used locally in transmitter only