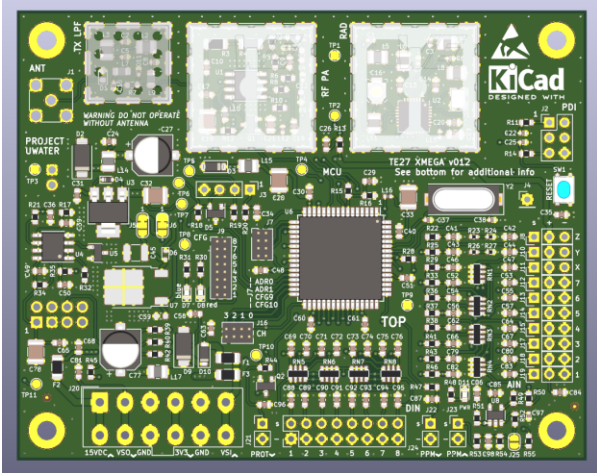


Flyer TE27 transmitter PCB

Transmitter PCB	Radio (opt.)	Specs	Configuration 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 jumpers). The software is specific for the radio transmitter used.	Equipped with ONSEMI AX5043 transceiver IC	75x95mm Simplex/1-way communication	System 1 = Invert free1&2 2 = Invert piston tank(s) 3 = Invert dive plane 4 = Invert rudder (L/R) 5 = Invert propulsion 6 = Telemetry support with 2x AX5043 mini receiver PCB's 7 = Speed adjust after tank (OTA) 8 = Invert piston speed balance / pump RPM
	Tx=50mW	Frequencies [MHz]:	
	CE pre-compliance	26.995 27.045 27.095 27.145 27.195 27.255	X = Analogue gain joysticks Y = PPM signal source Z = Invert PPM
	15VDC regulated ¹	50Ω antenna impedance	
	Equipped with Radiometrix LMT0 module at the back	7x analogue input	3x RF channel 2x Protocol address
	Tx=100mW	8x digital input	<u>Note jumper CFG6</u> Generates the serial protocol on the Tx pin of the serial port. See bottom of the TE27 PCB to identify the Tx pin. The RF PA is disabled. The TE27 PCB can be operated without the AX5043 or the LMT0. 15VDC is not needed.
	CE approved	1x PPM input 1x PPM output 1x USART (3V3)	
	15VDC regulated or 6-12V battery		

Function overview

ANA/DIG	n	Ballast system with piston tanks			Low pressure elastic ballast tanks ²		
		Transmitter input		Receiver output	Transmitter input		Receiver output
Analogue (servos)	1	Left/right	Joystick	Left/right	Left/right	Joystick	Left/right
	2	Dive rudder	Joystick	Dive rudder	Dive rudder	Joystick	Dive rudder
	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 RPM	Joystick	Propeller	Propeller	Joystick	Propeller
	7	Piston tank speed balance	Potmeter	Piston tank after	Pump speed	Potmeter	Pump after
Digital ³ (switches and push buttons)	1	DIN 1		NPN 1	DIN 1		NPN 1
	2	DIN 2		NPN 2	DIN 2		NPN 2
	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 ⁴		NPN 7 ⁵	Halves propeller speed		Valve fill after
	8 ⁶	Disable piston tank control		NA	Disable pumps and valves		NA

¹ Can for instance be made with adjustable buck/boost, step-up/step-down switching voltage regulator XL6019 (Tenstar Robot)

² Not supported by mini receivers.

³ Not supported by mini receivers.

⁴ Supported by mini receivers.

⁵ Operated together with NPN6 for extra heavy load switching.

⁶ Used locally in transmitter only.