ZYRO

ZYRO Air Analog

5.8GHz 2.5W Analog Video Transmitter / Product Brief



Product image

Beyond Distance, In Real Time

01 Product Overview

ZYRO Air Analog is a lightweight, high-power analog VTX module for FPV, lightweight aircraft, and latency-sensitive video links. It uses a high-strength CNC aluminum housing and a built-in micro turbo fan to balance heat dissipation, transmission stability, and installation convenience at high output power levels.

02 Key Features

Adjustable power levels Supports PIT, 25 mW, 400 mW, 800 mW, and 2500 mW operating modes.	**Wide voltage input** Supports 7-36 V DC input for 2S-6S power systems.
Active cooling and thermal protection Automatically steps down power above 100°C and restores the configured level at 95°C.	**OSD serial tuning** Compatible with IRC Tramp / TRAMP protocol for remote setup through flight controller OSD.
Complete interface set	**Lightweight structure**

Supports video input, audio input, dual 5 V outputs, GND, IRC, and DC input.	Approx. 15.6 g with dimensions of about 38.7 × 26 × 11 mm.

03 Technical Specifications

Parameter	Value
Product type	5.8GHz Analog VTX
Channel count	48CH
Band groups	A / B / E / F (FatShark) / R (RaceBand) / L
Input voltage	7-36 V DC (2S-6S)
Auxiliary output	Dual 5 V / 0.5 A
Video system	PAL / NTSC
Modulation	FM
Transmit power	PIT / 25 mW / 400 mW / 800 mW / 2500 mW
Maximum transmit power	34 dBm ±1 dBm (max)
Antenna connector	MMCX
Control method	Onboard button + OSD serial remote setup (TRAMP)
Audio	External audio input supported
Dimensions	38.7 × 26 × 11 mm
Weight	15.6 g (with case, excluding antenna)
Protection	Automatic thermal power reduction to prevent overheating during prolonged ground setup

04 Operation Guide

Parameter	Value
Band / channel button	Short press to change channel; hold for 3 seconds to switch the frequency band.
Power button	Short press to cycle through PIT, 25 mW, 400 mW, 800 mW, and 2500 mW.
Power indication	25 mW flashes once; 2500 mW flashes four times;

	hold for 3 seconds to enter PIT mode.
High-power operation	Always connect a matching antenna before using 400 mW / 800 mW / 2500 mW modes.
OSD remote setup	Connect to the flight controller TX and configure remotely from the OSD menu using the TRAMP protocol.

05 Installation Notes

- Install the antenna before powering on the device.
- Set the transmitter and receiver to the same frequency.
- The aluminum case may become hot during operation; avoid direct contact with high-temperature surfaces.
- Do not exceed the 7-36 V input range.
- The dual 5 V outputs are intended only for peripheral power supply and must not be back-fed.
- If the outer case is removed to reduce weight, thermal performance may decrease at high power.

06 Typical Applications

- Analog FPV platforms
- Lightweight aircraft and racing builds
- Low-latency analog video transmission links