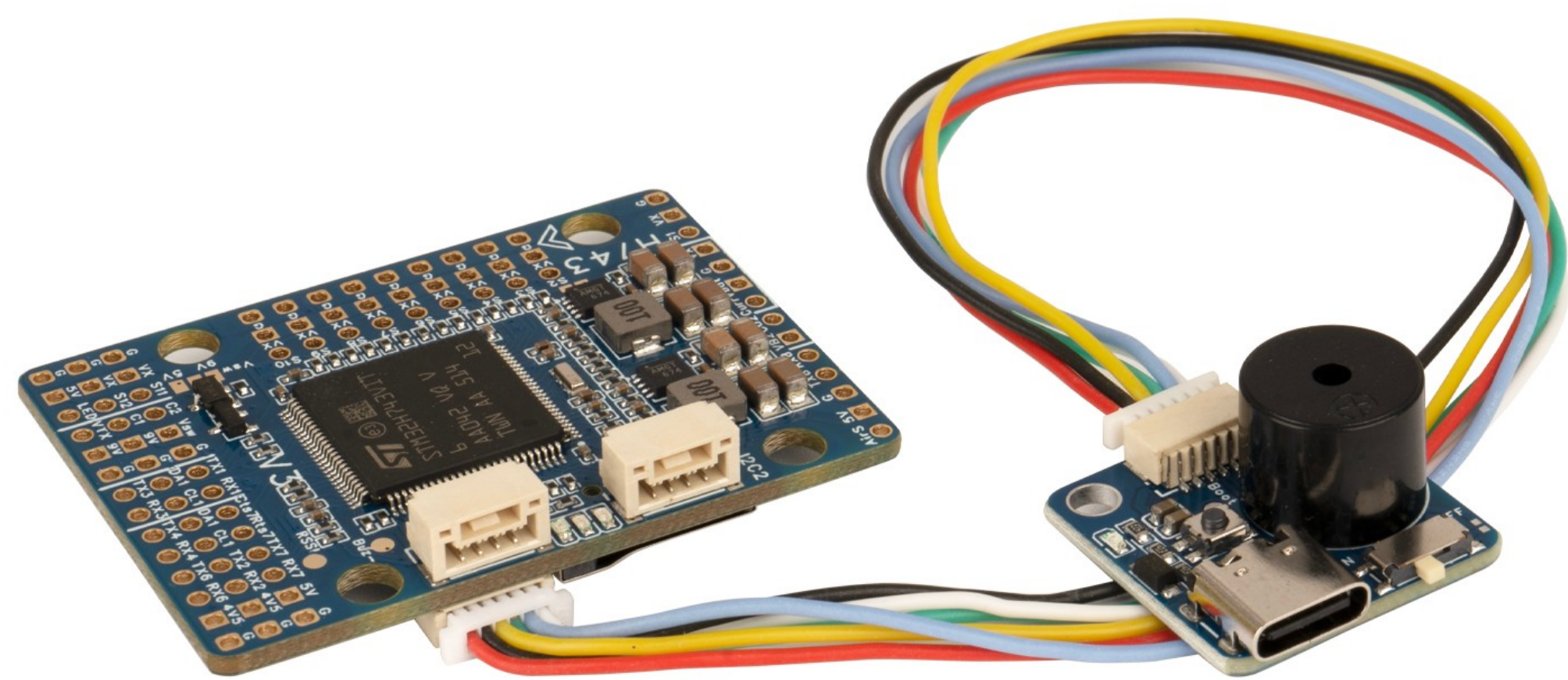




Pilotix H743-WING V3 Advanced CZ is an FPV flight controller built around the STM32H743VIT6 microcontroller, featuring dual ICM42688-P gyroscopes connected via SPI with an 8 kHz update rate. The board includes a built-in accelerometer, DPS310 barometer, and analog OSD capability with two analog video inputs and one output. It provides 7 UART ports, 6 SPI ports, 1 I2C port, and 4 motor control outputs supporting protocols from PWM through DShot1200 with bi-directional DShot. The controller supports ArduPilot, INAV, and Betaflight firmware, includes a 5V 2A linear BEC, SD card slot, USB Type-C interface, LED strip output, and buzzer. Board dimensions are 54 x 36 mm with 30.5 x 30.5 mm M3 mounting pattern, weighing 30g, operating from -20 to 40°C.

Product details	
Model	Pilotix H743-WING
Version	V3 Advanced CZ
SKU	11921
MCU	
FC MCU	STM32H743VIT6
Firmware support	ArduPilot, INAV, Betaflight
OSD type	Analog OSD
Sensors	
Gyro	ICM42688-P
Gyro connection	SPI
Number of gyros	2
Accelerometer	Built-in
Barometer	DPS310
Gyro update rate	8 kHz
Electrical specification	
BEC	5 V @ 2 A
BEC type	Linear
Interfaces	

Motor control outputs	4
ESC protocols	PWM, OneShot125, OneShot42, Multishot, DShot150, DShot300, DShot600, DShot1000, DShot1200
Bi-directional DShot	yes
Built-in receiver	no
Receiver protocol	SBUS, CRSF, IBUS, DSMX, SUMD, PPM
DFU button	yes
I2C port	1
LED strip output	yes
SD card slot	yes
SPI ports	6
UART ports	7
Buzzer	yes
USB port	USB Type C
Video inputs	2
Video input	Analog
Video output	Analog
Mechanical specifications	
Dimensions	54 x 36 mm
Mounting	30.5 x 30.5 mm (M3)
Weight	30 g
Operating conditions	
Operating temperature	-20 - 40 °C
Storage temperature	-30 - 50 °C
Humidity range	20-95% RH (non-condensing)
Common	
Package contents	Soldering pins
Warranty	2 years

Wiring diagram

