



FPV flight controller built around the STM32H743 microcontroller with support for ArduPilot and Betaflight firmware. Features an ICM42688-P gyroscope with SPI connection operating at 8 kHz update rate, built-in accelerometer, and DPS310 barometer. Equipped with analog OSD and dual analog video inputs with analog video output. Provides 8 UART ports, 4 motor control outputs supporting DShot150/300/600, PWM, OneShot42/125, and bi-directional DShot. Includes dual BEC outputs at 5V/2A and 9V/2A, SD card slot, USB Type-C port, I2C port, LED strip output, and buzzer output. Supports CRSF receiver protocol. Board dimensions are 36 x 36 mm with 30.5 x 30.5 mm M3 mounting pattern, weighing 7g. Operates from -20 to 40°C.

Product details	
Model	H743-SLIM
SKU	7286
MCU	
FC MCU	STM32H743
Firmware support	ArduPilot, Betaflight
OSD type	Analog OSD
Sensors	
Gyro	ICM42688-P
Gyro connection	SPI
Number of gyros	1
Accelerometer	Built-in
Barometer	DPS310
Gyro update rate	8 kHz
Electrical specification	
BEC	5 V @ 2 A, 9 V @ 2 A
Interfaces	
Motor control outputs	4

ESC protocols	DShot300, DShot600, DShot150, PWM, OneShot125, OneShot42
Bi-directional DShot	yes
Built-in receiver	no
Receiver protocol	CRSF
DFU button	yes
I2C port	1
LED strip output	yes
SD card slot	yes
SPI ports	1
UART ports	8
Buzzer output	yes
USB port	USB Type C
Video inputs	2
Video input	Analog
Video output	Analog
Mechanical specifications	
Dimensions	36 x 36 mm
Mounting	30.5 x 30.5 mm (M3)
Weight	7 g
Operating conditions	
Operating temperature	-20 - 40 °C
Storage temperature	-30 - 50 °C
Humidity range	20-95% RH (non-condensing)
Common	
Package contents	Set of cables, Shock-absorbing balls (4x)
Warranty	2 years

Wiring diagram

