

FlyUp H743 Max

Flight Controller — Technical Specification Sheet

// TECHNICAL SPECIFICATIONS

Processor	STM32H743VIH6, 480 MHz, 1 MB RAM, 2 MB Flash
IMU / Gyro	ICM42688p (SPI1) + ICM42688p (SPI4)
Barometer	Infineon DPS310 (I2C2)
OSD	AT7456E (SPI2)
Blackbox	MicroSD slot (SDIO)
UART	7 ports (1,2,3,4,6,7,8) with built-in inversion
PWM Outputs	13 (including LED pad)
I2C	1 port
DroneCAN	1 port
Status LEDs	3 × FC STATUS (blue + green) + 3.3V power indicator
ADC	6 channels: VBAT, Current, RSSI, Analog AirSpeed, VBAT2, Current 2
PIN_IO	2 ports
USB	Type-C (USB 2.0)
Input Voltage	6–36V (2–8S LiPo)
BEC 5V	2A continuous (max 3A)
BEC 12V	1.5A continuous
LDO 3.3V	max 0.8A
ADC VBAT2	max 69V (voltage divider 1K:20K)
Firmware	ArduPilot (ChibiOS): MATEKH743 · Betaflight: MATEKH743 · INAV: MATEKH743
Mount	30.5 × 30.5 mm, Ø4 mm with Ø3 mm grommets
Dimensions	38.5 × 38.5 mm

FlyUp H743 MaxB Connection Diagram

