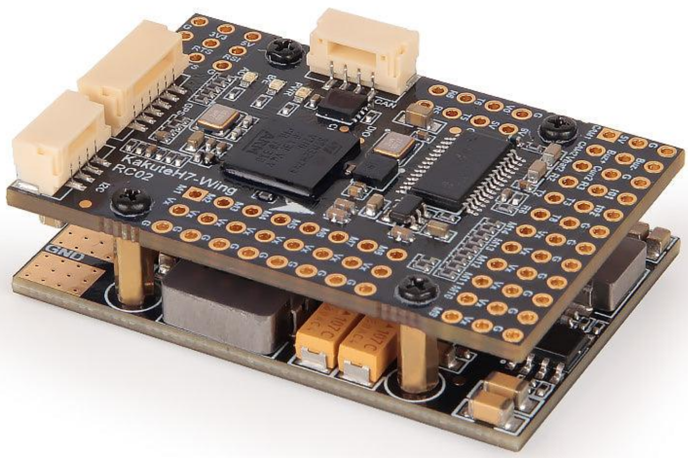
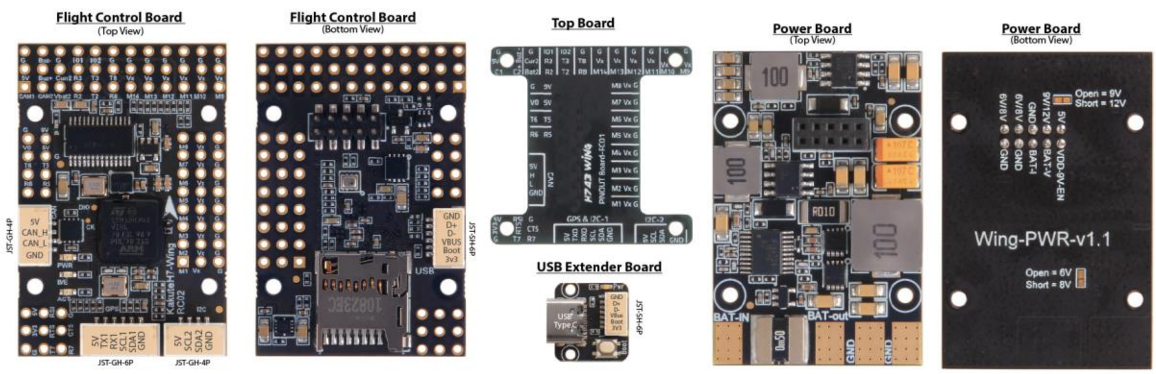
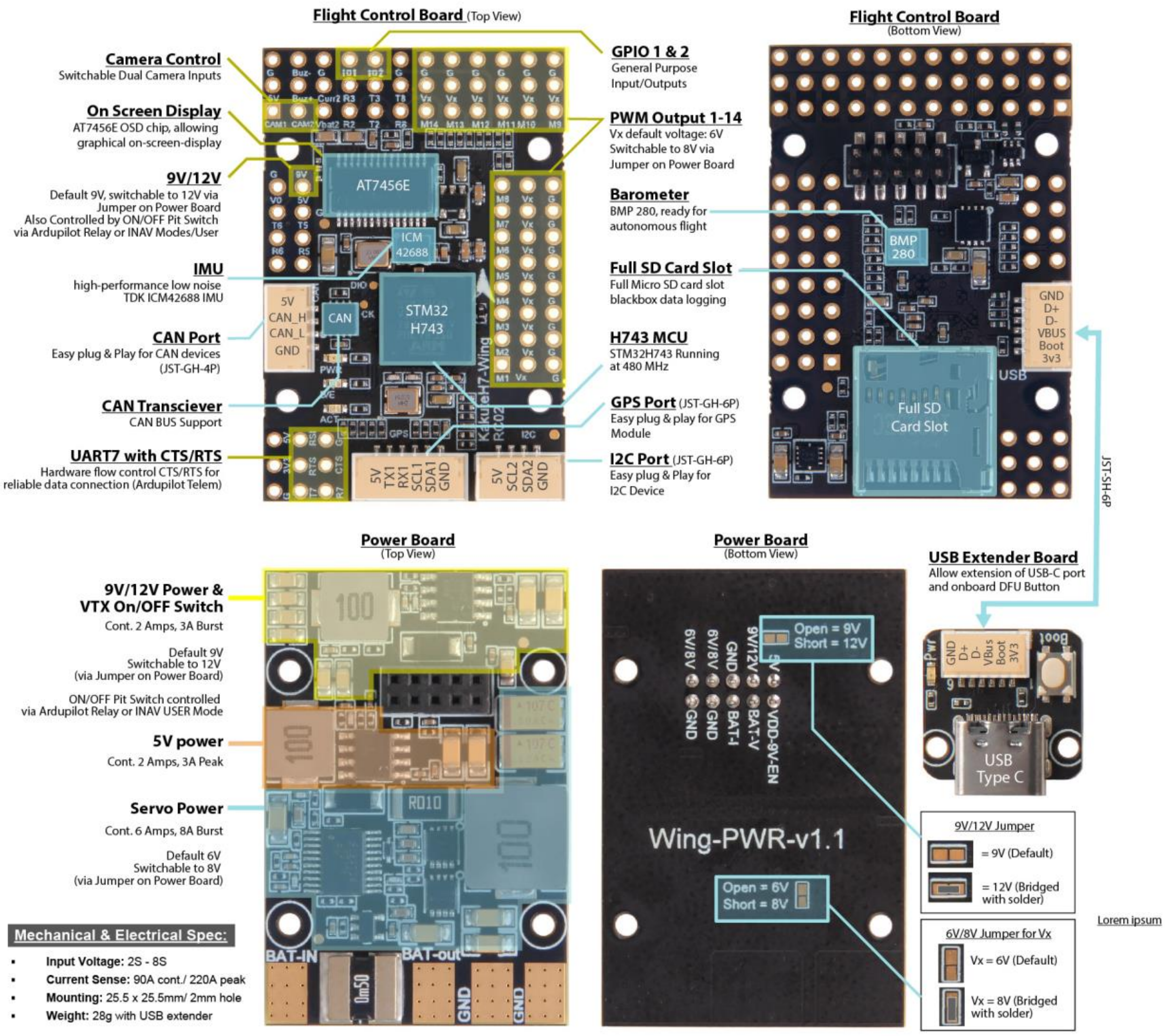
soluTech H743-Wing V3







Features

- STM32H743 MCU running at 480 MHz
- High-Precision / low-noise ICM-42688-P IMU
- CAN Bus Support
- Dual Camera Inputs switch
- 3 On-board BEC output 5V, 6V/8V and 9V/12V
- 9V/12V ON/OFF Pit Switch
- On-board voltage & current sensor
- Integrated BMP280 barometer
- Plug-and-play GPS, CAN, I2C ports
- Small & low-profile design fits into compact frame
- Supports INAV (6.1.1 & later), Ardupilot (4.4 & later)

Specification:

- MCU: STM32H743VIT6, 480 MHz, 1MB RAM, 2MB Flash
- IMU: ICM-42688P (SPI3)
- Baro: BMP280 (I2C4)
- OSD: AT7456E (SPI2)
- Blackbox: MicroSD card slot on SDMMC2
- 7x Uarts (1,2,3,5,6,7,8) with built-in inversion.
- 14x PWM outputs
- 1x CAN
- 5x ADC (Bat1/Curr1, Bat2/Curr2 and RSSI)
- 3x I2C (I2C1 and I2C2 for external devices, I2C4 for onboard sensors)
- 3x LEDs for FC STATUS (Blue, Red) and 3.3V indicator (Green)
- USB/DFU Key Extender with USB Type-C
- Dual Camera Inputs switch
- 5V/9V(12V) for Camera/VTX power switch
- High-precision Current Sense (90A continuous, 220A peak)
- Battery Voltage Sensor: 1.5K:25.5K (Scale 1800 in INAV, BATT_VOLT_MULT 18.18 in ArduPilot)
  Static power 160mA@5V

PDB

- Input voltage range: 10~36V (3~8S LiPo)
- 1x ESC power pads
- Current Sense: 90A continuous, 220A peak. (Scale 275 in INAV, 36.36 A/V in ArduPilot)

BEC 5V output

- Designed for FC, Receiver, OSD, Camera, 2812 LED Strip, Buzzer, GPS, Air Speed Sensor, etc.
- Output 5.15 +/- 0.1V DC
- Continuous current 2 Amps, 3A Peak

BEC 9V /12V output

- Designed for Video Transmitter, Camera, Gimbal etc.
- Continuous current 2 Amps, 3A Peak
- 12V option with Jumper pad

BEC Vx output

- Designed for Servos
- Voltage adjustable, 6V Default, 8V option with Jumper pad
- Continuous current 6 Amps, 8A Peak

BEC 3.3V output

- Linear Regulator
- Continuous current: 200mA

Mechanical

- Mounting: 25 x 25mm, M2 hole
- Dimensions: 45x 30 x 13.5 mm
- Weight: 28g with USB extender