



Pilotix F405V3 FC + 60A ESC V2 is an FPV flight controller and electronic speed controller stack featuring an STM32F405 microcontroller with Betaflight firmware support. The flight controller utilizes an ICM42688-P gyroscope connected via SPI, built-in accelerometer, SPL06 barometer, and built-in magnetometer, with analog OSD capability and dual analog video inputs. The 4-in-1 ESC operates on AT32F421K8U7 MCU running AM32 firmware, providing 60A continuous current per channel with 70A peak, supporting 3-6S input voltage through XT60 connector. The system features 5V/2.5A and 9V/2.5A BEC outputs, five UART ports, bi-directional DShot support, and 30.5 x 30.5mm mounting pattern. Operating temperature ranges from -20°C to 40°C.

Product details	
Model	F405V3 FC + 60A ESC V2
SKU	5201

FC	
MCU	
FC MCU	STM32F405
Firmware target	PILOTIXF405V3
Firmware support	Betaflight
OSD type	Analog OSD
Sensors	
Gyro	ICM42688-P
Gyro connection	SPI
Number of gyros	1
Accelerometer	Built-in
Barometer	SPL06
Magnetometer	Built-in
Electrical specification	

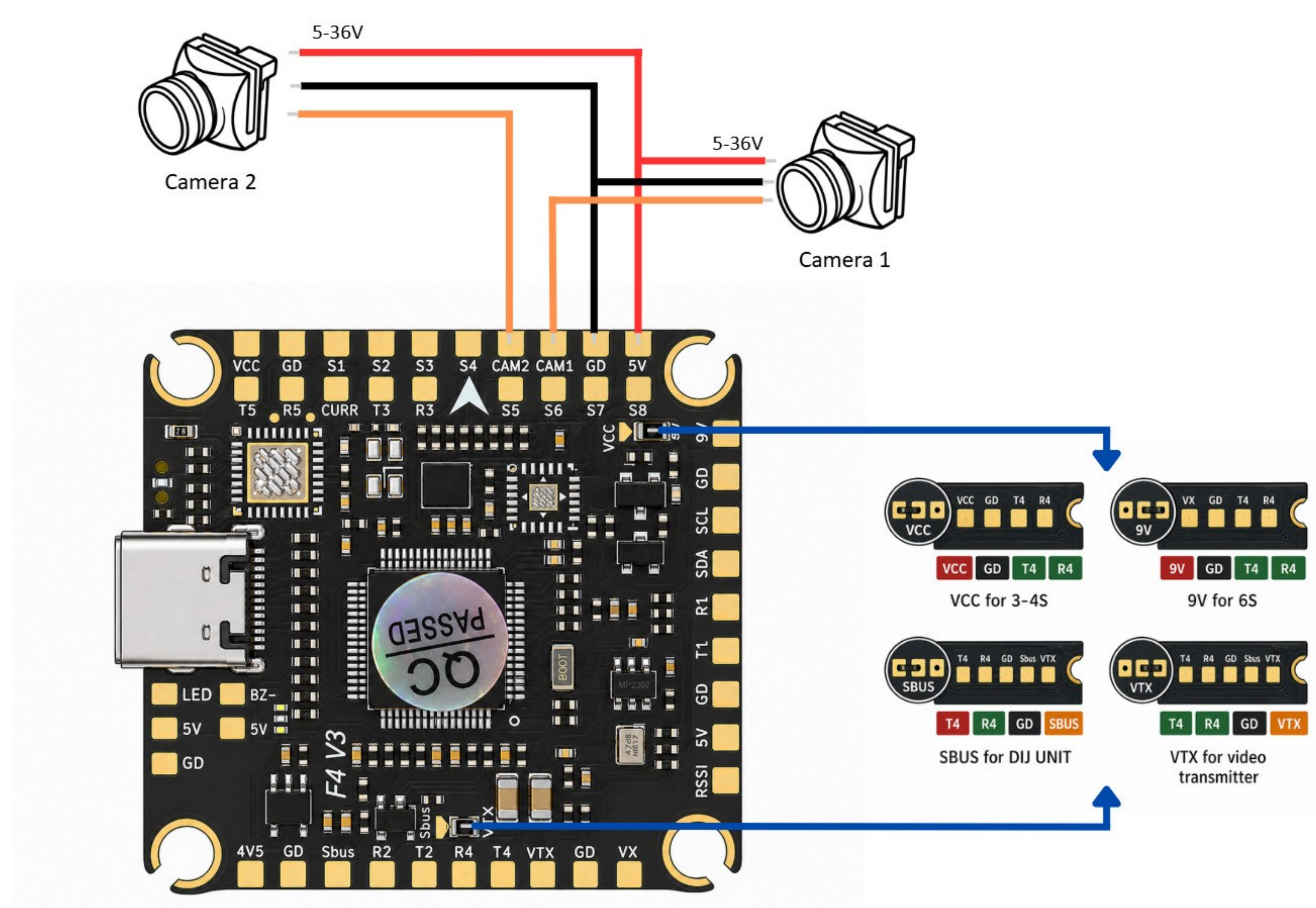
BEC	5 V @ 2.5 A, 9 V @ 2.5 A
Interfaces	
Motor control outputs	4
ESC protocols	DSHOT150, DSHOT300, DSHOT600, DSHOT1000, OneShot125, OneShot42, PWM, Brushed
Bi-directional DSHOT	yes
Receiver protocol	SBUS, CRSF, ELRS, FrSky, Futaba, Flysky, TBS Crossfire, DSMX
DFU button	yes
I2C port	1
LED strip output	yes
SD card slot	no
UART ports	5
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	9.6 g

ESC	
Electrical specification	
ESC type	4 in 1
Continuous current	60 x 4 A
Peak current	70 x 4 A
Input voltage	3 - 6S

Capacitor included	1 x 1000 µF @ 35 V
Power connector	XT60
MCU	
ESC MCU	AT32F421K8U7
Firmware	AM32
ESC configurator	AM32 Configurator
ESC protocols	DSHOT300, DSHOT600, PWM
Bi-directional DSHOT	yes
Interfaces	
Control connector	JST-SH 1.0 mm
Telemetry support	Current, Voltage, Temperature, RPM, UART / CAN
Motor output wire	18AWG
Mechanical specifications	
Dimensions	44.5 x 41 mm
Mounting	30.5 x 30.5 mm (M3)
Weight	14 g

Operating conditions	
Operating temperature	-20 - 40 °C
Storage temperature	-30 - 50 °C
Humidity range	20-95% RH (non-condensing)
Common	
Package contents	Shock-absorbing balls (4x), Set of cables, Screws (4x), Nuts (4x), Power cord, Solid-state capacitors , Heat shrink tubing, Soldering pins, MR30-FB (4x)
Warranty	3 years

FC wiring diagram



ESC wiring diagram

