

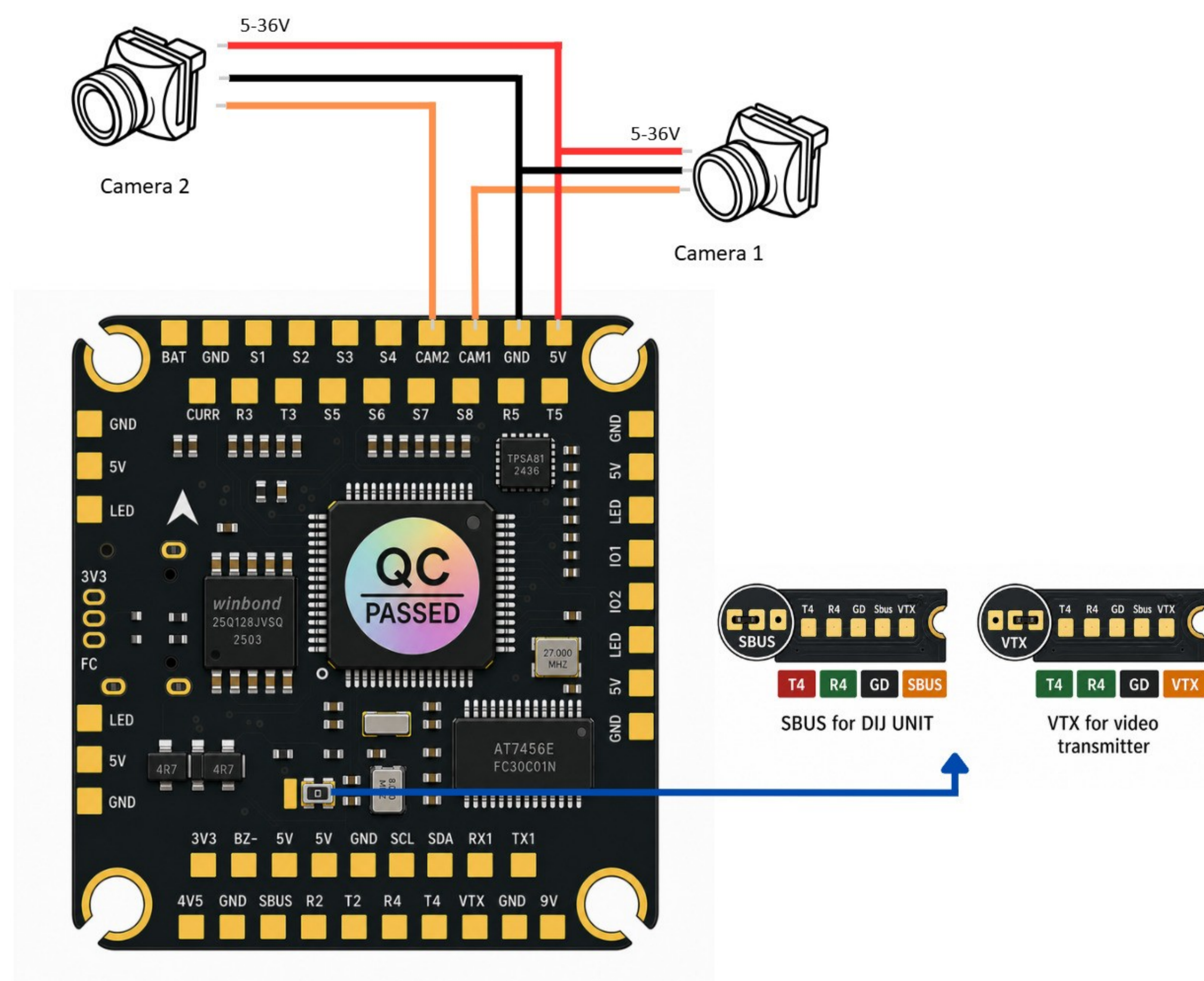
The F405 V4 ICM3055 AM32 55A is a flight controller and electronic speed controller (ESC) system designed for FPV applications. It is equipped with an STM32F405 flight controller microcontroller and features Betaflight firmware support, operating with an analog OSD type. The ESC utilizes the AT32F421K8U7 microcontroller, supporting protocols such as DShot150, DShot300, and Multishot, with a continuous current rating of 55A and a peak current of 60A. This system operates in environments with temperatures ranging from -20°C to 40°C and includes multiple built-in sensors for gyroscopic and accelerometric data retrieval, alongside telemetry capabilities for parameters such as voltage and current. The unit has a weight of 25.2 grams and dimensions compatible with various mounting configurations.

Product details	
Model	F405 V4 ICM3055 AM32 55A
SKU	7226
FC MCU	
FC MCU	STM32F405
Firmware target	PILOTIXF405V3
Firmware support	Betaflight
OSD type	Analog OSD
ESC MCU	
ESC MCU	AT32F421K8U7
Firmware	AM32
ESC configurator	AM32 Configurator
ESC protocols	DShot150, DShot300, DShot600, Multishot, OneShot
Bi-directional DShot	yes
Electrical specification	
ESC type	4 in 1
Continuous current	4 x 55 A
Peak current	4 x 60 A
BEC	5 V @ 2.5 A, 9 V @ 2.5 A

Input voltage	3 - 8S
Capacitor included	1 x 1000 μ F @ 35 V
Power connector	Solder pads
Sensors	
Gyro	ICM42688-P
Gyro connection	SPI
Accelerometer	Built-in
Barometer	SPL06
Number of gyros	1
Interfaces	
Motor control outputs	4
Motor output wire	Solder pads
Receiver protocol	ELRS, CRSF, SBUS, FrSky, Futaba, TBS Crossfire, DSMX
DFU button	yes
I2C port	1
LED strip output	yes
SD card slot	no
UART ports	5
USB port	USB Type C
Video inputs	2
Video input	Analog
Video output	Analog
Buzzer output	yes
Control connector	JST-SH 1.0 mm
Telemetry support	Current, Voltage, Temperature, RPM
Mechanical specification	
FC dimensions	37 x 37 mm
ESC dimensions	44.5 x 40.5 mm
Mounting	30.5 x 30.5 mm (M3)

Weight	25.2 g
Operating conditions	
Cooling requirements	Passive (natural airflow)
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), Screws (4x), Nuts (4x), Solid-state capacitors , Power cord, Heat shrink tubing
Warranty	2 years

FC wiring diagram



ESC wiring diagram

