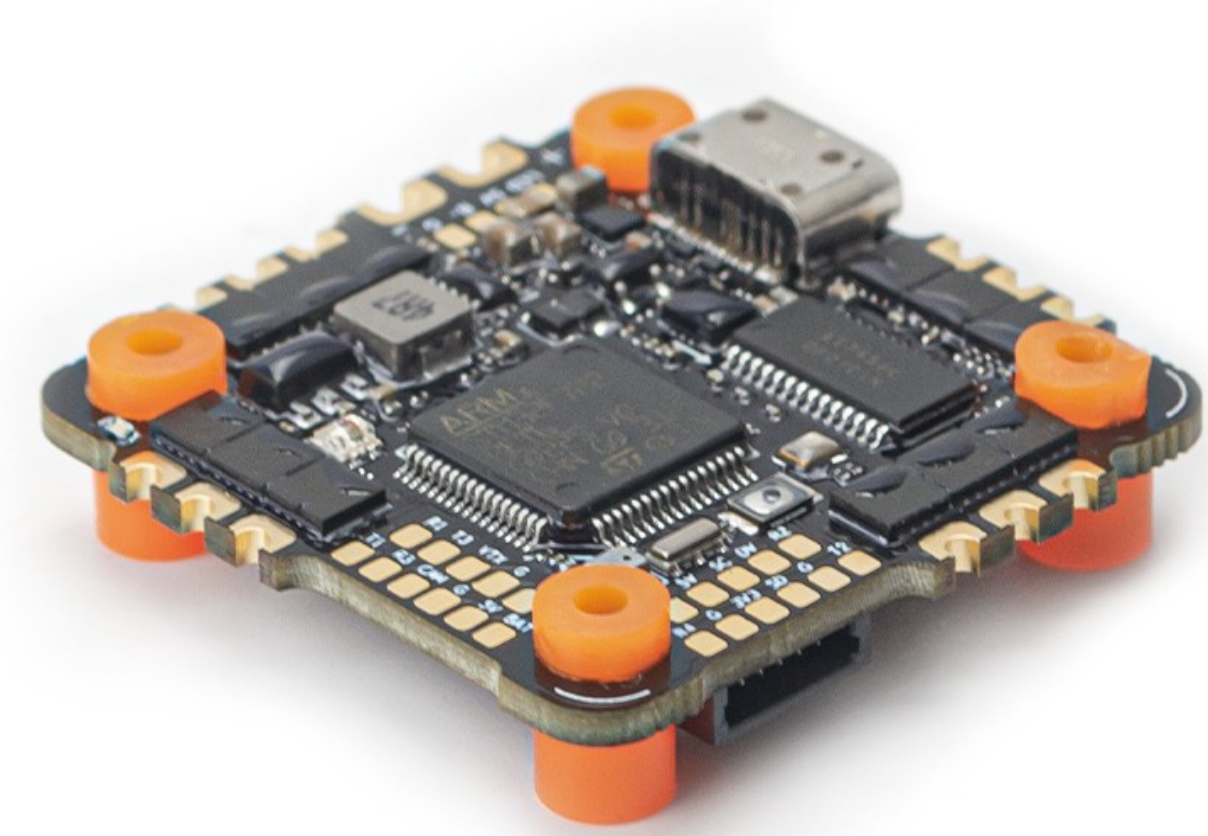




Pilotix F7 40A is an all-in-one FPV flight controller stack built around an STM32F722RET6 microcontroller with Betaflight firmware support. The unit integrates an ICM42688-P gyroscope and a 4-in-1 ESC running Bluejay V0.19.2 firmware at 48kHz, providing 40A continuous current per motor with 50A peak capability. Operates on 4-6S input voltage through an XT60H-M connector and includes a 470µF 35V capacitor. Features 5 UART ports, 4 motor outputs, 2 analog video inputs with analog output, LED strip and buzzer outputs, and USB Type-C connectivity supporting SBUS and CRSF receiver protocols. Measures 36 x 36mm with 25.5 x 25.5mm M3 mounting pattern, weighing 8.8g. Operates from -20°C to 40°C at 20-95% relative humidity.

Product details	
Model	F7 40A
SKU	8811
MCU	
AIO MCU	STM32F722RET6
Firmware support	Betaflight
ESC Firmware	Bluejay V0.19.2 48Khz
Sensors	
Gyro	ICM42688-P
Electrical specification	
Capacitor included	1 x 470 µF @ 35 V
Continuous current	4 x 40 A
Peak current	4 x 50 A
Input voltage	4 - 6S
Power connector	XT60H-M
Interfaces	
Motor control outputs	4
Receiver protocol	SBUS, CRSF
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	25.5 x 25.5 mm (M3)
Weight	8.8 g
Operating conditions	
Humidity range	20-95% RH (non-condensing)
Operating temperature	-20 - 40 °C
Storage temperature	-30 - 50 °C
Common	
Package contents	Shock-absorbing balls (4x), Set of cables, Power cord, Solid-state capacitors
Warranty	2 years

Wiring diagram

