



The F405 V3 ICM42688 CZ is a flight controller featuring an STM32F405 MCU that supports the PILOTIXF405V3 firmware, along with Betaflight. It is equipped with an ICM42688-P gyro, integrated accelerometer and magnetometer, and a SPL06 barometer, providing comprehensive sensor data for flight stabilization. This controller operates within a temperature range of -20 to 40 °C and an operational humidity range of 20-95% RH (non-condensing), ensuring reliability in various environmental conditions. The device dimensions are 36mm x 36mm, and it weighs 9.6 grams, allowing for efficient integration into FPV systems.

Product details	
Model	F405 V3 ICM42688 CZ
SKU	11617
MCU	
FC MCU	STM32F405
Firmware target	PILOTIXF405V3
Firmware support	Betaflight
OSD type	Analog OSD
Sensors	
Gyro	ICM42688-P
Gyro connection	SPI
Accelerometer	Built-in
Barometer	SPL06
Magnetometer	Built-in
Number of gyros	1
Electrical specification	
BEC	5 V @ 2.5 A, 9 V @ 2.5 A
Interfaces	
Motor control outputs	4

ESC protocols	PWM, OneShot125, Multishot, DShot150, DShot300, DShot600, DShot1000, OneShot42, 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 specification	
Dimensions	36 x 36 mm
Mounting	30.5 x 30.5 mm (M3)
Weight	9.6 g
Operating conditions	
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)
Warranty	2 years

Wiring diagram

