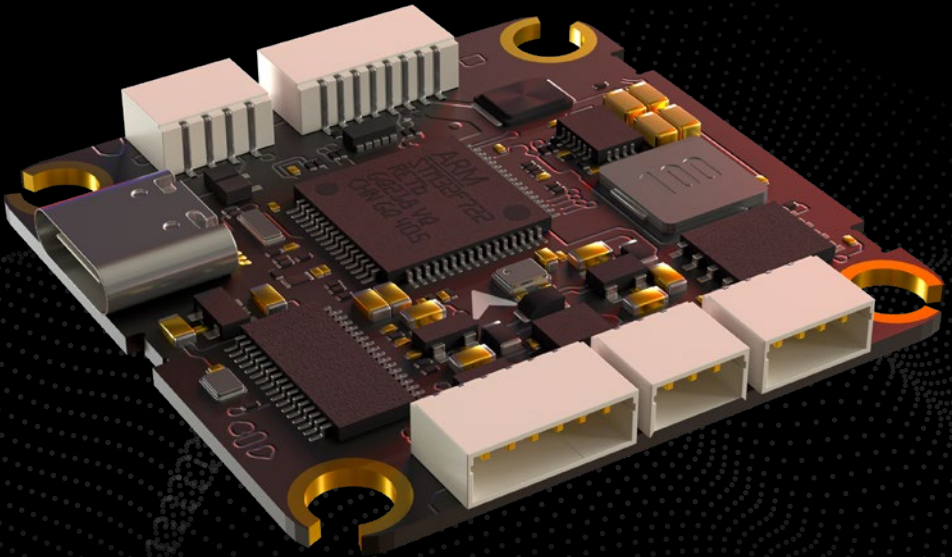




Flight Controller

FT F722V1



USER MANUAL

Read this manual carefully before operating the device

IMPORTANT

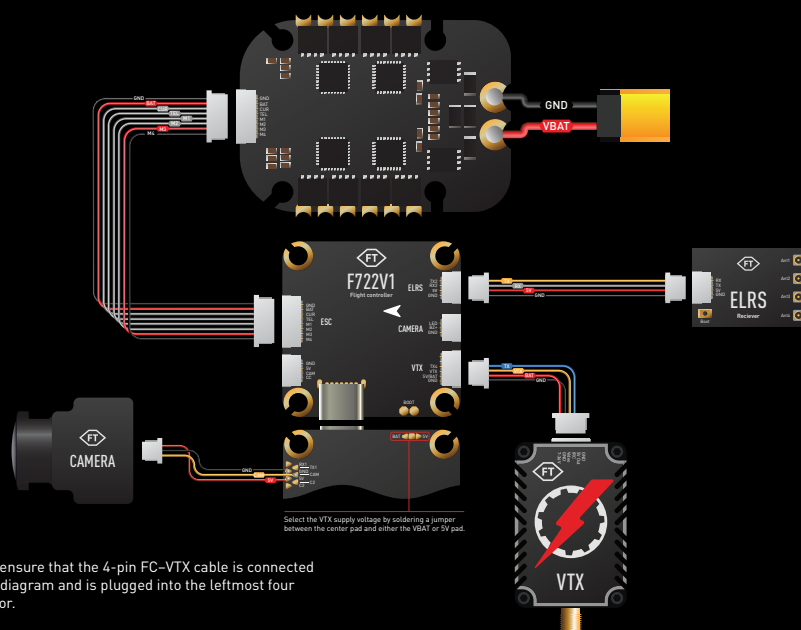


- Do not exceed the allowable supply voltage range (3S–8S). Exceeding this range may result in overheating, damage to electronic components, or fire.
- Do not connect or disconnect peripheral modules while the power supply is switched on.
- Avoid exposure of the controller board to moisture, dust, metal particles, or other contaminants.
- Do not use the controller if PCB traces, connectors, or electronic components are damaged.
- In case of abnormal behavior (overheating, burning smell, sensor malfunction), immediately disconnect the power supply.
- Operation near strong sources of electromagnetic interference or high-power transmitters is not recommended.

PARAMETERS

Microcontroller	STM32F722RET6, CPU clock up to 216 MHz
Gyroscope	ICM42688P
OSD chip	AT7456E(CVBS OSD)
Blackbox	16 MB
Input voltage	3-8S (7-36 V)
BEC	5 V 3 A
LC filter	Power supply noise suppression
Ports	8 × PWM / 5 × UART / I2C / BZ-
Barometer	DPS368
Dimensions	36.5 mm x 37 mm
Mounting holes	30.5 mm x 30.5 mm x ø4 mm

CONNECTION DIAGRAM



Important!

Before applying power, ensure that the 4-pin FC-VTX cable is connected according to the wiring diagram and is plugged into the leftmost four pins of the VTX connector.

M1 - M8 Motors 1-8 respectively

BAT Battery input (3-8S)

GND Common ground

CUR Current sensing input

TX1 / RX1 UART1 signal lines

TX2 / RX2 UART2 signal lines

TX3 / RX3 UART3 signal lines

TX4 / RX4 UART4 signal lines

TX5 / RX5 UART5 signal lines

5V BEC 5 V output

SDA I2C data line

SCA I2C clock line

D- / D+ USB data lines

BZ+ Buzzer power output

BZ- Controlled ground for buzzer

LED LED power output

CAM Video input

VTX Video output

CC Camera control output

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