GEP-F722-45A AIO v2

Specification:

Model Name:	GEP-F722-45A AIO v2
MCU:	STM32F722
Gyro:	ICM-42688-P
Firmware target:	GEPRC_F722_AIO
OSD:	AT7456E
Current:	YES
Beeper:	YES
LED:	YES
Black Box:	16MB
USB:	micro USB
BEC output:	5V@2.5A
ESC MCU:	8BB21F16G
Continuous current:	45A
MAX current:	55A (10s)
Input Voltage:	2-6S LiPo
Supports:	Dshot600,Oneshot,Multishot
ESC Traget:	G_H_30
Size:	32x32mm
Installing Hole:	25.5x25.5mm(M3)
Weight:	8.3g

Interface definition:

Motor 4

Motor 2

Motor 3

Motor 1

GND
T5 GND 5V
T2 5V R5
GND 5V
5V R2

T3
T1
R3 VOUT
R1
GND VIDEO
5V GND
T4 5V
R4

M4 M2
M3 M1

AT7456E
AM02AN

F722

100

LED
BZ 5V
GND

USB
BOOT
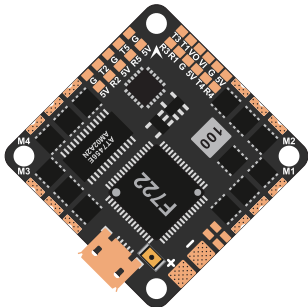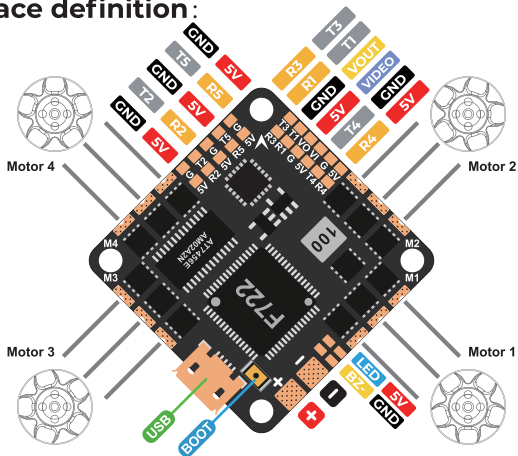
DJI Diagram FPV System:

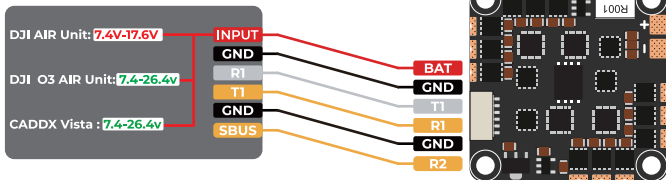| Identifier	Configuration/MSP		Serial RX
USB VCP	🟠	115200 ▼	⚪
UART1	🟠	115200 ▼	⚪
UART2	⚪	115200 ▼	🟠

Receiver

Serial-based receiver(SPEKSAT,S ▼   Receiver Mode

Note: Remenber to configure a Serial Port (via Ports tab) and choose a Ser Receiver Provider when using RX_SERIAL feature.

SBUS   ▼   Serial Receiver Provider

When using the "BAT" interface to power VTX, make sure your battery voltage is within the voltage range required by VTX to avoiding damage the VTX board, or use BEC to supply power to the VTX
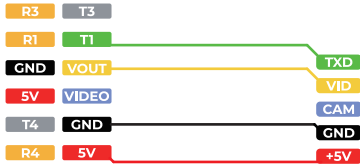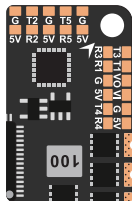

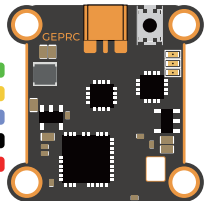DJI AIR Unit : 7.4V-17.6V

DJI O3 AIR Unit : 7.4-26.4v

CADDX Vista : 7.4-26.4v

INPUT
GND
R1
T1
GND
SBUS

BAT
GND
T1
R1
GND
R2

Analog VTX:

Identifier	Configuration/MSP	.....	Peripherals	
USB VCP	⬤ 115200 ▾	.....	Disabled ▾	AUTO ▾
UART1	⬤ 115200 ▾	.....	VTX,IRC Tamp ▾	AUTO ▾
UART2	⬤ 115200 ▾	.....	Disabled ▾	AUTO ▾

Other Features

- ⬤ AIRMODE
- ⬤ OSD
- ⬤ DYNAMIC_FILTER

STABLE VTX58600N

Camera:

Other Features		
⬜ AIRMODE	Permanently enable Airmode
🟧 OSD	On Screen Display
⬜ DYNAMIC_FILTER	Dynamic gyro notch filtering

CADDX Rate2

R3   T3

R1

GND   GND

5V   VIDEO   VIDEO

+5V

CADDXFPV

Receiver:

Identifier	Configuration/MSP		Serial RX
USB VCP	⬤	115200 ▼	◯
UART1	◯	115200 ▼	◯
UART2	◯	115200 ▼	⬤

Receiver

Serial-based receiver(SPEKSAT,S ▼   Receiver Mode

Note:Remenber to configure a Serial Port (via Ports tab) and choose a Ser Receiver Provider when using RX_SERIAL feature.

CRSF ▼   Serial Receiver Provider
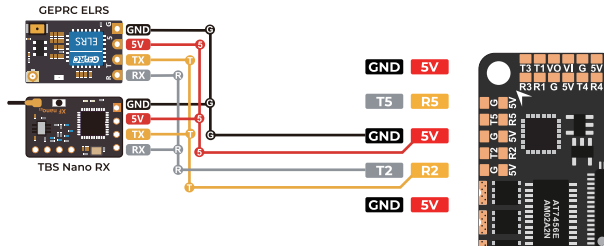
GEPRC ELRS

GND
5V
TX
RX

TBS Nano RX

GND
5V
TX
RX

GND 5V

T5 R5

GND 5V

T2 R2

GND 5V

T3 T1 VO VI G 5V
R3 R1 G 5V

Receiver:

Identifier	Configuration/MSP		Serial RX
USB VCP	⬤ (on)	115200 ▾	◯ (off)
UART1	◯ (off)	115200 ▾	◯ (off)
UART2	◯ (off)	115200 ▾	⬤ (on)

Receiver

Serial-based receiver(SPEKSAT,S ▾   Receiver Mode

Note: Remember to configure a Serial Port (via Ports tab) and choose a Ser
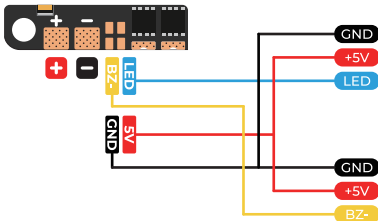Receiver Provider when using RX_SERIAL feature.

SBUS ▾   Serial Receiver Provider
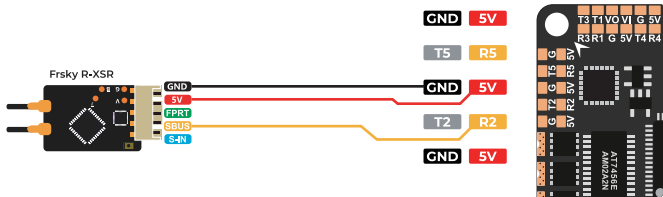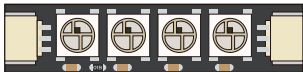
Buzzer & Led Board:

Other Features	
⚪	TELEMETRY
🟠	LED_STRIP
⚪	DISPLAY

Beeper Configuration	
🟠	GYRO_CACIBRATED
🟠	RX_LOST
🟠	RX_LOST_LOADING
🟠	……

GEPRC LED Board

GEPRC Super Buzzer

GND
+5V
LED

GND
+5V
BZ-

BZ-
LED
5V
GND

GPS:
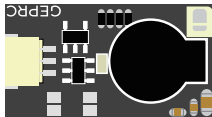
Identifier			Sensor Input	
USB VCP			Disabled ▾	AUTO ▾
UART1			Disabled ▾	AUTO ▾
UART2			Disabled ▾	AUTO ▾
UART3	·······→		GPS ▾	AUTO ▾

🔧 Setup
📁 Ports
⚙ Configuration
🔋 Power&Battery
Failsafe

🔧 Setup
📁 Ports
⚙ Configuration
🔋 Power&Battery
Failsafe

🟠 **GPS**   GPS for navigation and telemery

[UBLOX ▾] **protocol**   GEPRC-M8U GPS
Born For FPV

🟠 Auto Baud

🟠 Auto Config

⚪ Set Home Point Once

🟠 Accelerometer

⚪ Barometer(if supported)

RX — R4
TX — T4
5V — 5V
GND — GND

R1
T3 — R3
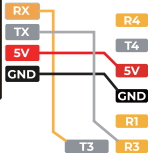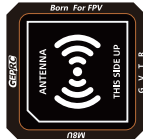
Include:

1 x GEP-F722-45A AIO v2

1 x XT30-7CM-18AWG Power Cables

1 x 35V220UF Capacitor

1 x SH1.0-6Pin to GH1.25-8Pin Cables

1 x SH1.0-6Pin Cables

8 x M2*6.5mm Damping Rings

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