SPAN-F722-VTX

Manual V1.0

SPECS:

MCU: STM32F722RET6
IMU: 2x ICM20689(SPI)
BlackBox: 32Mb onboard Flash
OSD: BetaFlight OSD w/ AT7456E chip
Baro: BMP280
BEC Output: 5V@2A
Integrated LC Filter
Firmware target: EXF722DUAL
Size: 36x36mm board, φ4mm with Grommets φ3mm
Power input: 3-6S LiPo

5.8G 600mW VTX:
Channel: 48
Power transmission: 0mW(Pit mode) / 25mW / 100mW / 200mW / 600mW
Connector type: MMCX Connector
Traditional button
IRC Tramp protocol

BL32 50A ESC 4IN1:
MCU: STM32F051K86(32bit 48mHz)
Continuous Current: 50A
Peak Current: 55A (5S)
Current sensor: YES
Telemetry: Supported
Support DSHOT1200/DSHOT600, PWM, Multishot, OneShot
Firmware Version:GEPRC-BL32-4IN1
Input Voltage: 3-6S Lipo

Instruction Diagram

Receiver

Ports

Note: not all combinations are valid. When the flight controller firmware detects this the serial port configuration will be reset.
Note: Do **NOT** disable MSP on the first serial port unless you know what you are doing. You may have to reflash and erase your configuration if you do.

Identifier	Configuration/MSP	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	115200		Disabled AUTO	Disabled AUTO	Disabled AUTO
UART1	115200		Disabled AUTO	Disabled AUTO	Disabled AUTO
UART2	115200		Disabled AUTO	Disabled AUTO	Disabled AUTO
UART3	115200		Disabled AUTO	Disabled AUTO	Disabled AUTO
UART4	115200		Disabled AUTO	Disabled AUTO	VTX (IRC Tran AUTO
UART5	115200		Disabled AUTO	ESC AUTO	Disabled AUTO

SBUS

F.Port

CLI:
```
set serialrx_halfduplex = ON
set serialrx_inverted = ON
save
```


TBS Crossfire Nano RX

DSM/DSMX

IBUS

ESC

VTX

Important note:
If you need to use the VTX button with Betaflight v3.3.0+, please disable the IRC TRAMP peripherals on UART4.

5.8G 600mW VTX

Ports

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UART2	115200		Disabled AUTO	Disabled AUTO	Disabled AUTO
UART3	115200		Disabled AUTO	Disabled AUTO	Disabled AUTO
UART4	115200		Disabled AUTO	Disabled AUTO	VTX (IRC Tran AUTO

VTX Menu

- Hold the VTX Button for 2s: BLUE(Channel): The number of blinks indicates the channel 1 to 8. Short press the VTX button to change
- Hold the VTX Button for 2s: GREEN(Band): The number of blinks indicates the band A to H. Short press the VTX button to change.
- Hold the VTX Button for 2s: RED(Output Power): The number of blinks indicates the VTX output power. 1 = 25mW, 2 = 100mW, 3 = 200mW. Short press the VTX button to change.

Note: Antenna must be installed BEFORE power on.

Frequency Table

	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
Band A	5865	5845	5825	5805	5785	5765	5745	5725
Band B	5733	5752	5771	5790	5809	5828	5847	5866
Band E	5705	5685	5665	5645	5885	5905	5925	5945
Band F	5740	5760	5780	5800	5820	5840	5860	5880
Band R	5658	5695	5732	5769	5806	5843	5880	5917
Band H	5362	5399	5436	5473	5510	5547	5584	5621

How to turn VTX on and off?
Quickly double press the VTX Button to switch between on and off. The VTX LEDs will blink together when the working state changes.

LED & Buzzer

Camera

GPS & Compass

Ports

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UART1	115200		Disabled AUTO	GPS AUTO	Disabled AUTO
UART2	115200		Disabled AUTO	Disabled AUTO	Disabled AUTO

Attention!Because the compass function is not complete on BF firmware, please use it carefully.
If you want to have the complete compass function, please use INAV firmware.
INAV firmware:IFLIGHTF7 TWING

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