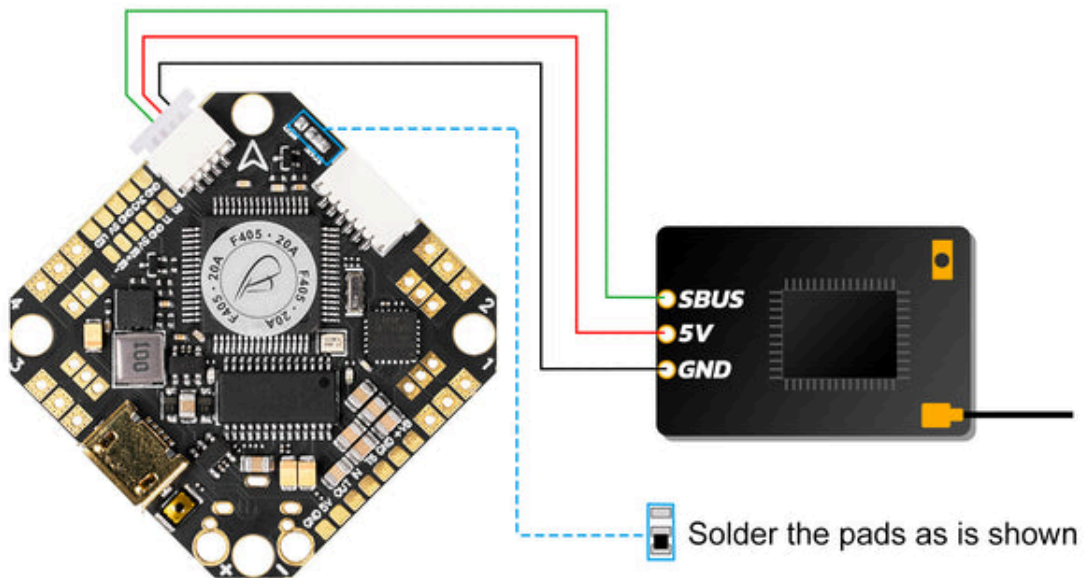


How to Connect the External Rx to Toothpick F405 20A AIO FC V4

The new AIO board has integrated the Plug & Play Port for the external Rx, and there will be a 4-Pin connector for Rx in the package. Thus, we highly recommend pilots to use pin-connect to save the solder work.

SBUS Protocol RX



In the Ports tab, you need to set UART3 as the Serial RX, make sure no other options are enabled for that UART.

Identifier	Configuration/MSP	Serial Rx
USB VCP	<input checked="" type="checkbox"/> 115200 ▼	<input type="checkbox"/>
UART1	<input type="checkbox"/> 115200 ▼	<input type="checkbox"/>
UART3	<input type="checkbox"/> 115200 ▼	<input checked="" type="checkbox"/>

In Configuration tab, set "Serial-based Receiver" as the Receiver Mode, and set "SBUS" as the Serial Receiver Provider.

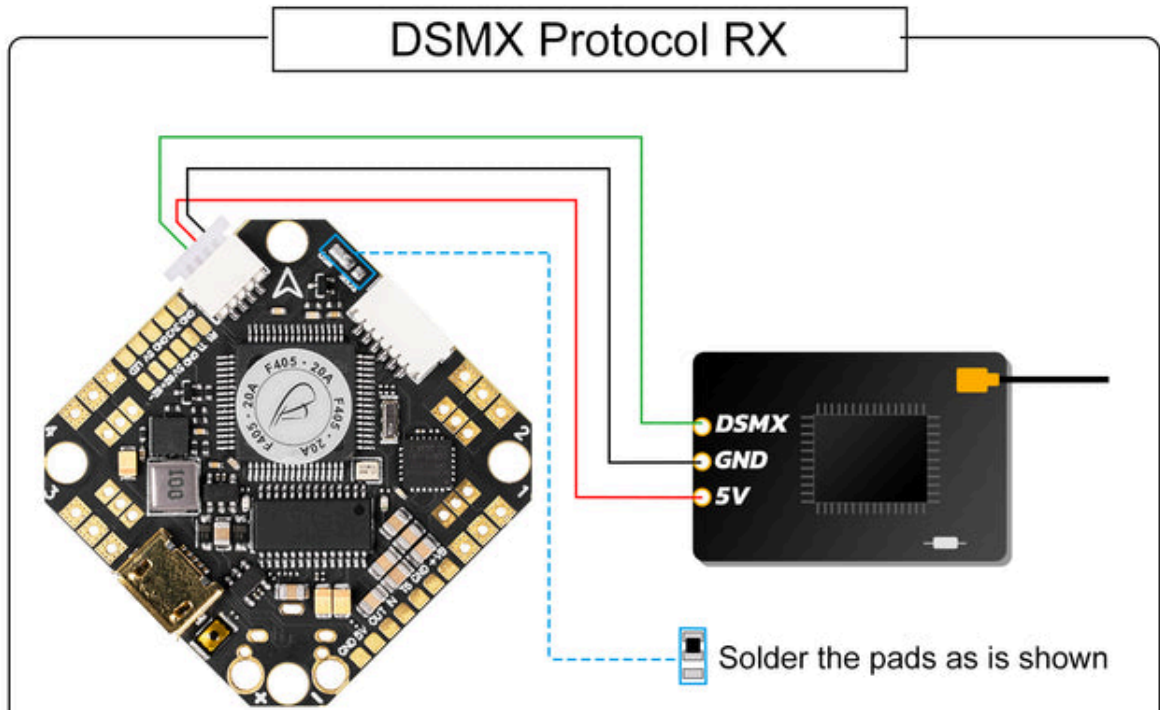
Receiver

Serial-based receiver (SPEKSAT, S ▼) Receiver Mode

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

SBUS ▼ Serial Receiver Provider

* SBUS Protocol RX: Frsky XM+ / Futaba AC900 / Flysky RX2A Pro



In the Ports tab, you need to set UART3 as the Serial RX, make sure no other options are enabled for that UART.

Identifier	Configuration/MSP	Serial Rx
USB VCP	<input checked="" type="checkbox"/> 115200 ▼	<input type="checkbox"/>
UART1	<input type="checkbox"/> 115200 ▼	<input type="checkbox"/>
UART3	<input type="checkbox"/> 115200 ▼	<input checked="" type="checkbox"/>

In Configuration tab, set "Serial-based Receiver" as the Receiver Mode, and set "SPEKTRUM2048" as the Serial Receiver Provider.

Receiver

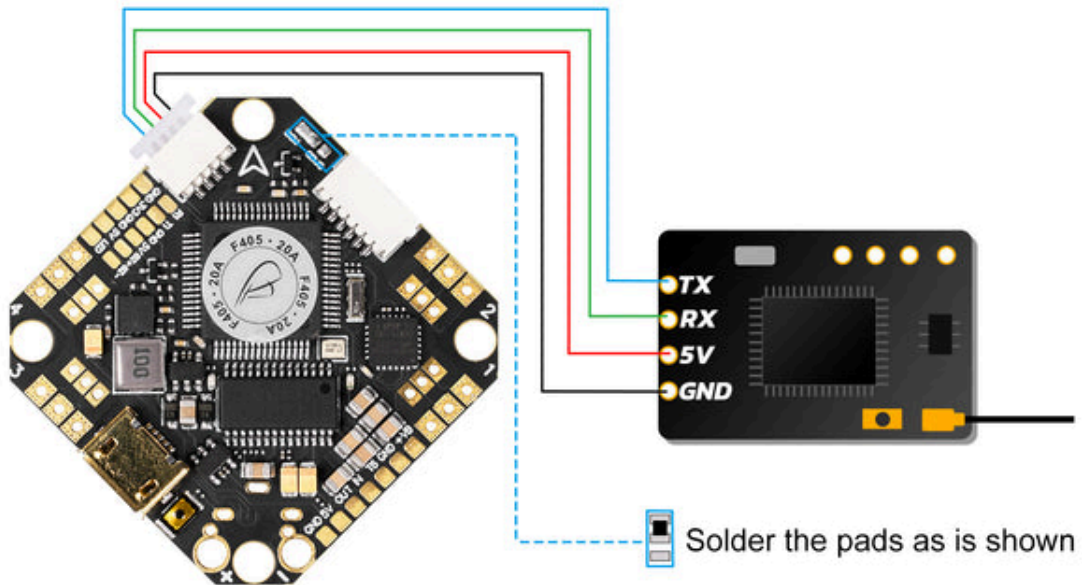
Serial-based receiver (SPEKSAT, 5 ▼) Receiver Mode

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

SPEKTRUM2048 ▼ Serial Receiver Provider

* DSMX Protocol RX: DSMX

CRSF Protocol RX



In the Ports tab, you need to set UART3 as the Serial RX, make sure no other options are enabled for that UART.

Identifier	Configuration/MSP	Serial Rx
USB VCP	<input checked="" type="checkbox"/> 115200 ▼	<input type="checkbox"/>
UART1	<input type="checkbox"/> 115200 ▼	<input type="checkbox"/>
UART3	<input type="checkbox"/> 115200 ▼	<input checked="" type="checkbox"/>

In Configuration tab, set "Serial-based Receiver" as the Receiver Mode, and set "CRSF" as the Serial Receiver Provider.

Receiver

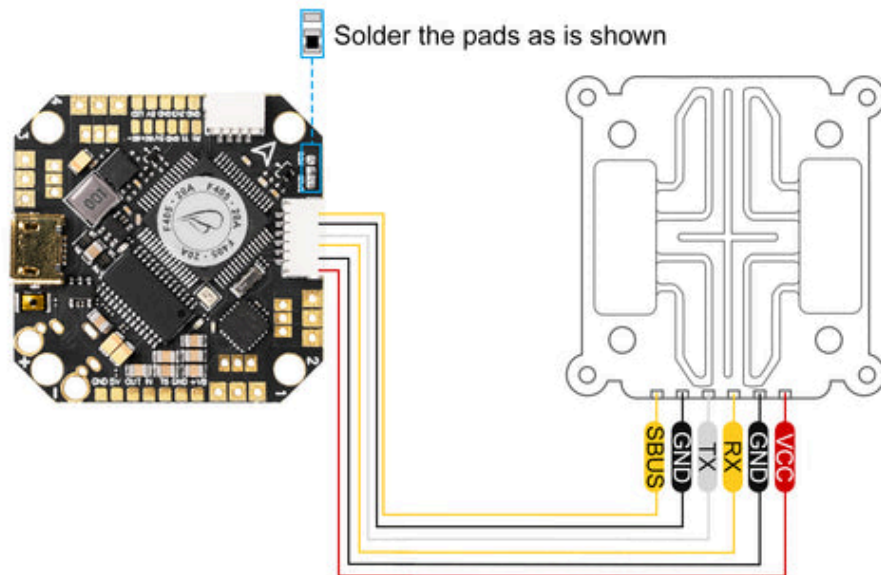
Serial-based receiver (SPEKSAT, S) Receiver Mode

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

CRSF Serial Receiver Provider

* CRSF Protocol RX: TBS Nano

Digital HD Camera



In the Ports tab, you need to set UART4 as the Configuration/MSP, and set UART3 as the Serial RX. Make sure no other options are enabled for that UART.

Identifier	Configuration/MSP	Serial Rx
USB VCP	<input checked="" type="checkbox"/> 115200 ▼	<input type="checkbox"/>
UART1	<input type="checkbox"/> 115200 ▼	<input type="checkbox"/>
UART3	<input type="checkbox"/> 115200 ▼	<input checked="" type="checkbox"/>
UART4	<input checked="" type="checkbox"/> 115200 ▼	<input type="checkbox"/>

In Configuration tab, set "Serial-based Receiver" as the Receiver Mode, and set "SBUS" as the Serial Receiver Provider.

Receiver

Serial-based receiver (SPEKSAT, 5) Receiver Mode

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

SBUS Serial Receiver Provider

Note: The HD digital VTX has an integrated SBUS receiver which works with the DJI radio. If you are using an external receiver, then you do not need to wire SBUS to the digital VTX. Instead, connect the external receiver as indicated above.