KKT20 Series flytower manual

KKT Tower new name :
KKT16 mounting size 16*16mm ,
KKT20 mounting size 20*20mm ,
KKT30 mounting size 30.5*30.5mm

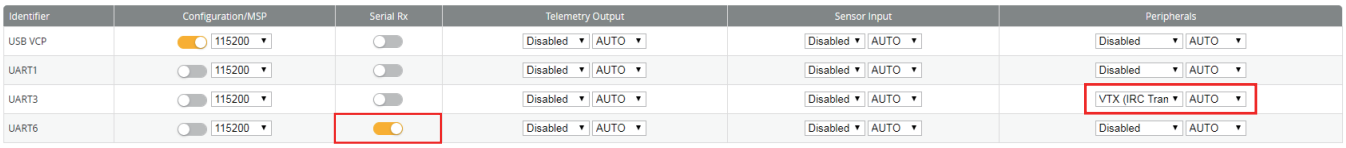
KKT20-B1	Old name : KK Tower (2-layer) 20A
KKT20-B2	Old name : KK Tower (3-layer) 20A
KKT20-B3	Old name : Flytower 20*20 V2
KKT20-B4	
KKT20-F405	Old name : F4+OSD (KK Tower part)
KKT20-F411	Old name : F411+OSD (KK Tower part)
KKT20-E12A	Old name : 4in1 12A (KK Tower part)
KKT20-E20A	Old name : 4in1 20A (KK Tower part)
KKT20-V200	Old name : VTX (KK Tower part)

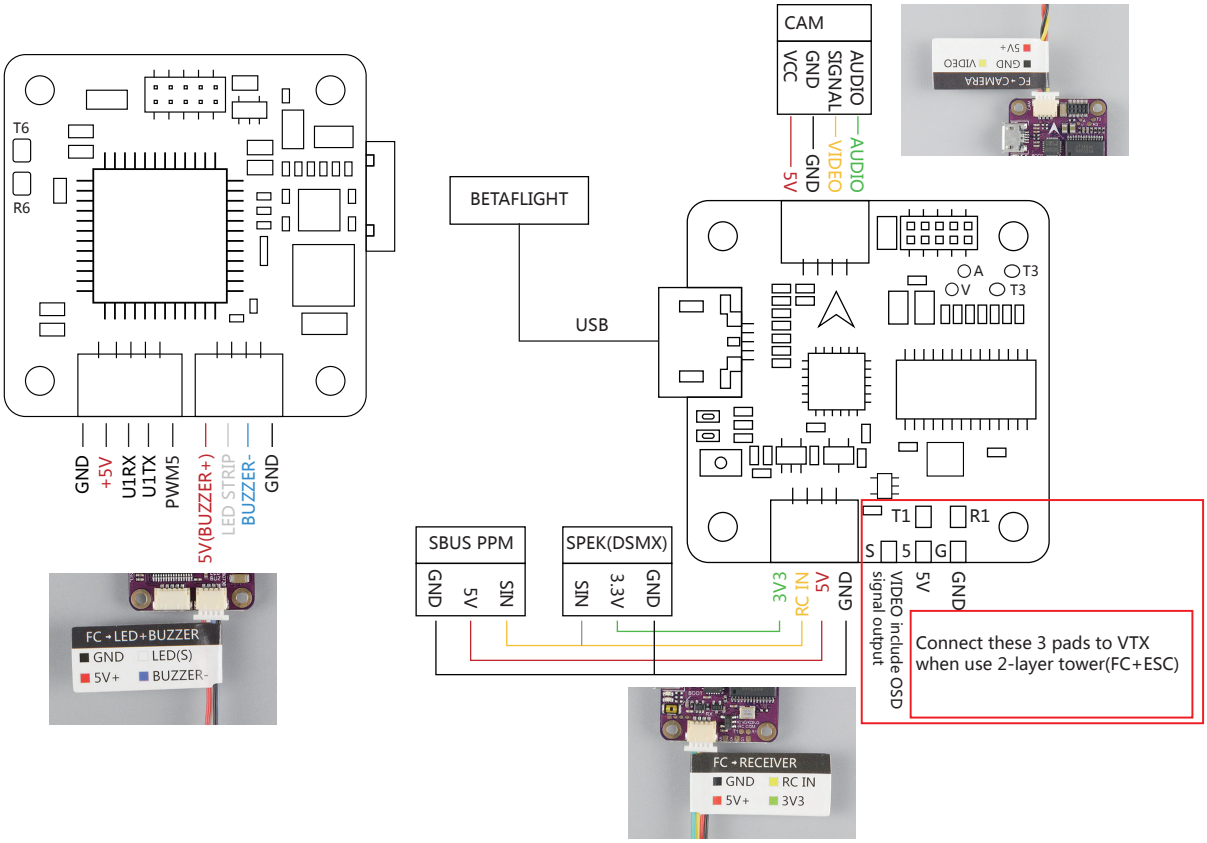
Note : Please according to carbon thick choose " O " ring damping when install flytower.

KKT20-F405 & KKT20-F411

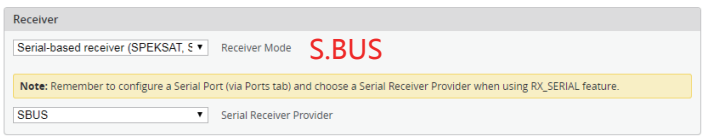
Name	Fireware	Camera input voltage	BetaFlight OSD	LED	Voltage test	Buzzer	Mounting size	Size
KKT20-F405	OMNIBUSF4SD	5V	✓	✓	✓	✓	20*20mm	25*26.5mm
KKT20-F411	MATEKF411	5V	✓	✓	✓	✓	20*20mm	25*26.5mm

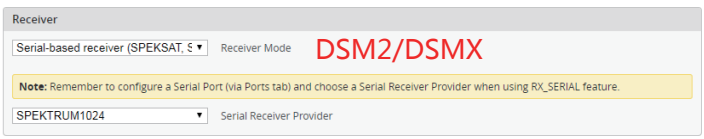
KKT20-F405





Choose the right receiver protorol





KKT20-F411

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

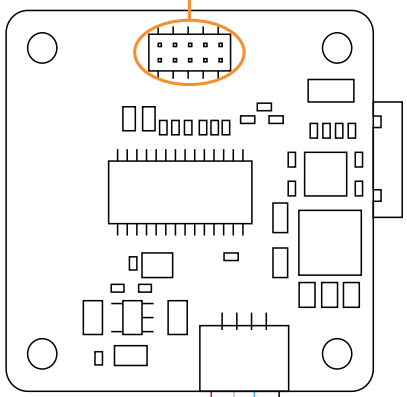
CURRENT	GND	GND	GND	BATTERY+
PWM4	PWM3	PWM2	PWM1	BATTERY+

CAM	AUDIO
	SIGNAL
	GND
	VCC

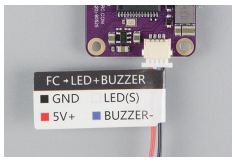
BATTERY+	GND	GND	GND	GND
BATTERY+	VIDEO	AUDIO		TX1

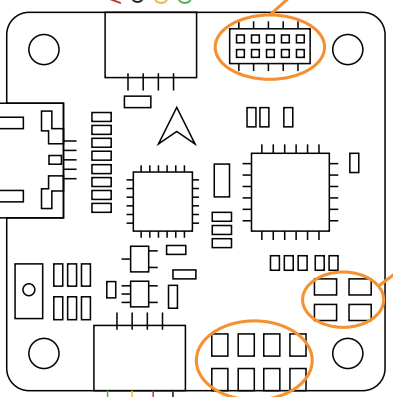
BETAFLIGHT

USB



5V(BUZZER+)
LED STRIP
BUZZER-
GND

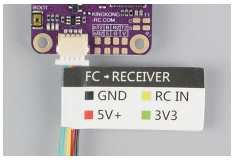




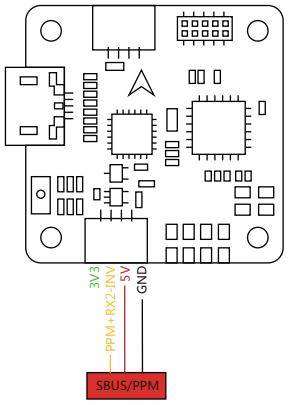
GND	TX1
5V	RX1

3V3
PPM+RX2-INV
5V
GND

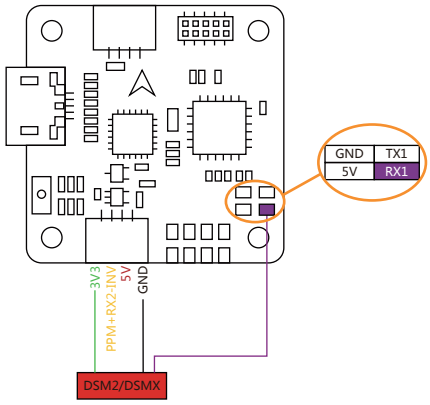
TX2-INV	BATTERY+	RX2	TX2
RX2-INV	5V	GND	VIDEO



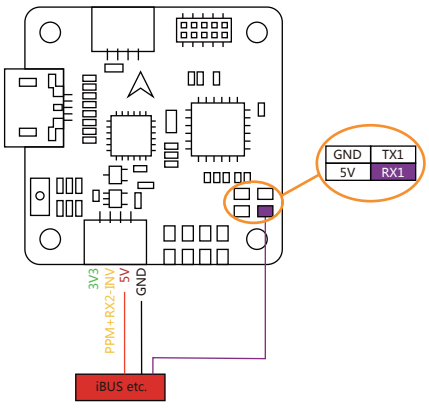
S.BUS&PPM Receiver connection — Supply voltage is 5V, PPM or invert RX2 signal input



DSM2&DSMX Receiver connection — Supply voltage is 3.3V, NOT invert RX1 signal input



iBUS Receiver connection — Supply voltage is 5V, PPM or invert RX1 signal input



Choose the right receiver protorol

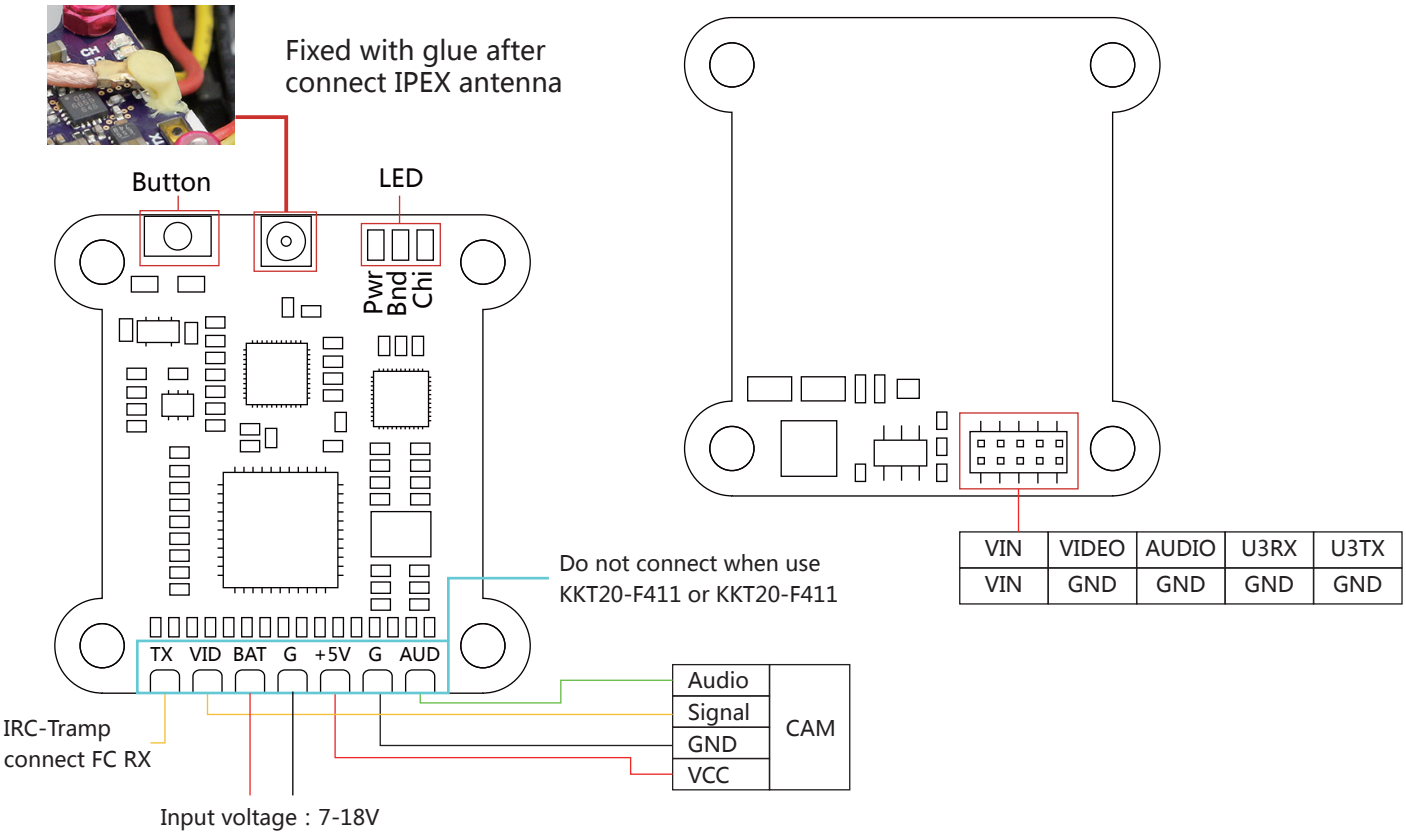
Receiver
Serial-based receiver (SPEKSAT, S) — Receiver Mode — **S.BUS**
Note: Remember to configure a Serial Port (via Ports tab) and choose a Serial Receiver Provider when using RX_SERIAL feature.
SBUS — Serial Receiver Provider

Receiver
Serial-based receiver (SPEKSAT, S) — Receiver Mode — **DSM2/DSMX**
Note: Remember to configure a Serial Port (via Ports tab) and choose a Serial Receiver Provider when using RX_SERIAL feature.
SPEKTRUM1024 — Serial Receiver Provider

Receiver
PPM RX input — Receiver Mode — **PPM**

KKT20-V200

Name	Input voltage	Camera output voltage	Frequency	Power	IRC-Tramp	Mounting size	Size
KKT20-V200	7-18V	5V	48CH	0/25/100/200mW	✓	20*20mm	25*28mm

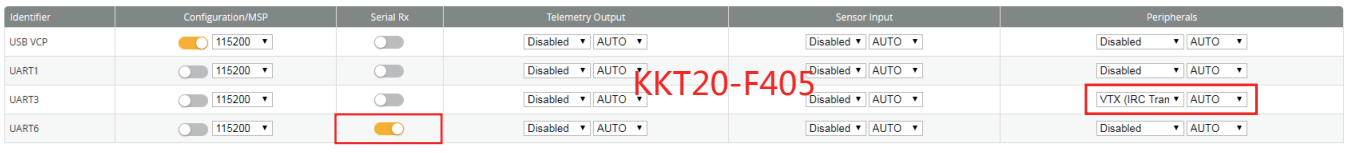


	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
Band A	5865	5845	5825	5805	5785	5765	5745	5725
Band B	5733	5752	5771	5790	5809	5828	5847	5866
Band E	5705	5685	5665	5645	5885	5905	5925	5945
Band F	5740	5760	5780	5800	5820	5840	5860	5880
Band H	5658	5695	5732	5769	5806	5843	5880	5917
Band R	5362	5400	5436	5473	5510	5547	5584	5620

Bule LED is channel (CH) indicator,flash 1~8 times mean CH-1~8.Green LED is band(BD) indicator,flash 1~6 times mean BAND-A~F, Red is output power(PW)indicator,flash 1~3 times mean 25mW/100mW/200mW output power.In normal working state,quickly double -click button,R/G/B sync flash mean VTX turned off,and also quickly double-click can turn on the VTX.in normal working state,press and hold the key for 3s,only blue led flashes,now click the key change channel(CH).press and hold the key for 3s,only blue green flashes, now click the key change band(BD) .press and hold the key for 3s,only red led flashes,now click the key change output power(PW).

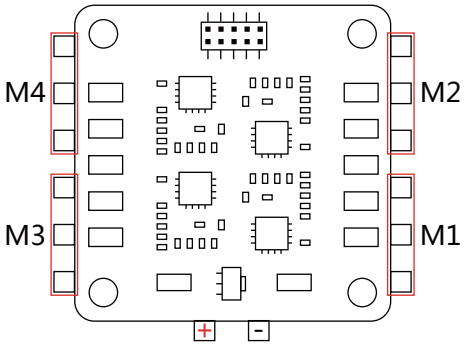
IRC-Tramp

Set up KKT20-F405 or KKT20-F411 in BetaFlight software ; Throttle stick in neutral position and YAW stick left and Pitch stick up, enter the OSD ; Operate the pitch stick up and down to select, and operate the roll stick right to enter.

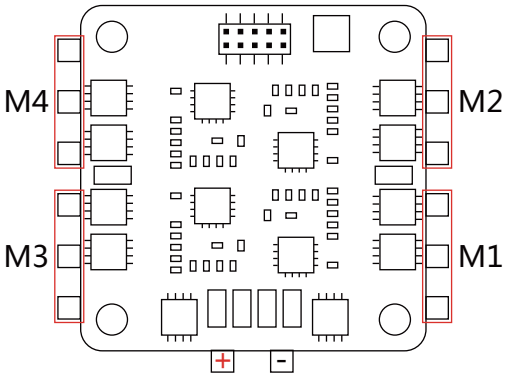


KKT20-E12A & KKT20-E20A

Name	Work current	Max instantaneous operating current(5s)	Work voltage	Firewre (BLHELI_S)	Voltage test	Mounting size	Size
KKT20-E12A	12A*4	15A*4	2-4S	G_H_30	✓	20*20mm	27.5*29.2mm
KKT20-E20A	20A*4	25A*4	2-4S	G_H_30	✓	20*20mm	29.2*31.1mm



KKT20-E12A



KKT20-E20A