

INAV Tips:

- **INAV firmware “MATEKF405SE” must be 6.0.0 or newer version.**
- Current sensor scale 150
- 5x Vx2 pads on S5~S9 rails are dead pins, If powering servos of S5~S9 rails with the built-in Vx BEC, bridge Vx2 to Vx pad with a drop of tin. If powering servos of S5~S9 rails with an external BEC, keep the gap open, you may connect external BEC to any pair of Vx2/G.
- **Softserial_tx1 is enabled on Tx2 pad by default for Frsky SmartPort telemetry. If using CRSF protocol receiver(TBS, ELRS etc), CPU based serial port(softserial) should be disable in INAV configurator.**
- GPS / DJI OSD and other digital video systems / CRSF protocol receiver can work with anyyyyyyy spare UART_TX & RX.
- Airspeed sensor MS4525 works on I2C2 bus only.

INAV				INAV MultiRotor	INAV Plane
	S1	5 V tolerant I/O	TIM4_CH2	Motor	Motor
	S2	5 V tolerant I/O	TIM4_CH1	Motor	Motor
	S3	5 V tolerant I/O	TIM3_CH3	Motor	Servo
	S4	5 V tolerant I/O	TIM3_CH4	Motor	Servo
	PWM	S5	5 V tolerant I/O	TIM8_CH3	Motor

	S6	5 V tolerant I/O	TIM8_CH4	Motor	Servo
	S7	5 V tolerant I/O	TIM12_CH1	Motor, No DShot	Servo
	S8	5 V tolerant I/O	TIM12_CH2	Motor, No DShot	Servo
	S9	5 V tolerant I/O	TIM1_CH1	Servo	Servo
	LED	5 V tolerant I/O	TIM2_CH1	2812LED	2812LED
	Vbat ADC	0~30V	ADC_CHANNEL_1	scale 1100	
	current ADC	0~3.3V	ADC_CHANNEL_2	scale 150 (220A)	
ADC	RSSI pad	0~3.3V	ADC_CHANNEL_3	Analog RSSI	
	I2C1 DA1, CL1	5V tolerant I/O	onboard Baro DPS310, Address 0x76		
			OLED 0.96"		
	I2C2 DA2, CL2	5V tolerant I/O	I2C Magnetometer, Rangefinder, Temperature sensor		
I2C			Digital Airspeed sensor MS4525		

	USB		USB	
	TX1 RX1	5V tolerant I/O	UART1	USER
	TX3 RX3		UART3	USER
	TX4 RX4		UART4	USER
	TX5 RX5		UART5	USER
	TX6 RX6		UART6	USER
				UART2
			Sbus pad	for SBUS receiver, Sbus pad = RX2+inverter
			RX2 pad	IBUS/DSM
			TX2 & RX2	CRSF disable Softserial_Tx1
			TX2 pad	uninverted FPort (hacked) disable Softserial_Tx1
			TX2 pad	SRXL2 disable Softserial_Tx1
UART 5V tolerant I/O	TX2 RX2 SBUS	5V tolerant I/O	TX2 pad	SmartPort Telemetry enable Softserial_Tx1