

Asgard32 F4 Public Test Version (Betaflight v3.4.0 Target AG3XF4) Pin Function Map

26 June, 2018

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Notes and Rules

Legend: UIM = Un-Inversion Mod, SS = Software Serial, XINV = External Inverter, FD = Full-Duplex, HD = Half-Duplex

*0 The map is distributed without any warranty, for correctness of the information or fitness for a particular build.

*1 UIM S.Port and F.Port can be connected to TX of any available UART. "set serialrx_halfduplex = ON" may be required. Also see *5.

*2 S.Port and F.port on software serial can be connected to any available timer. Also see *6.

*3 S.Port and F.Port with an external bi-dir inverter (XINV) can be connected to any FD-Serial. "set serialrx_halfduplex = off" may be required.

*4 Timer function on PA8 is only available if RX1 and SBUS are not used.

*5 FD-Serial can be used as HD-Serial on TX, in which case RX side can be used as timer if available.

*6 Channels of the same timer can not be assigned to different functions.

*7 CAMC pad has built-in RC filter tuned for Camera Control function, thus not suitable for other applications.

*8 Use non-inverted SBUS (CRSF) or equivalent for RX.

Pad	Timer	Pin	Basic Function	Receiver Options										Notes	Work Area	
				PPM	SBUS	FrSky S.Port			FrSky F.Port			DSM & Non-inverting serial RX	SRXL			CRSF & Full-duplex RX (*8)
						S.Port (UIM) (*1)	S.Port (SS) (*2)	S.Port (XINV) (*3)	F.Port (UIM) (*1)	F.Port (SS) (*2)	F.Port (XINV) (*3)					
TX1	TIM1	PA9	FD-Serial	HD-Serial	Timer	Timer	Timer	Timer	F.Port	FD-Serial or Timers	F.Port	Data	FD-Serial or Timers	TX		
RX1	TIM1	PA10										Timer		RX		
SBUS	TIM1	PA10	Inverter to RX1		SBUS	SBUS	SBUS	SBUS								
SBUS	TIM1	PA8	PPM path	PPM					Timer	Timer (*4)		Timer	Timer (*4)			
TX3	n.a.	PC10	FD-Serial	FD-Serial									Serial/Bind	TX	Alt. TX4	
RX3		PC11												RX		
TX5	n.a.	PC12	FD-Serial	FD-Serial									Serial/Bind	TX		
RX5		PD2												RX		
TX6	n.a.	PC6	FD-Serial	FD-Serial									Serial/Bind	TX		
RX6		PC7												RX		
S/A (TX2)	TIM5	PA2	LED strip	LED Strip (default) or Timer												
CAMC (RX2)	TIM9	PA3	Camera Control	Camera Control (default) (*7) or Timer										Not DMA capable		
SCL	TIM2	PB10	I2C	I2C (I2C2) or Timers										Alt. RX3		
SDA		PB11														Alt. TX3
M6	TIM8	PC9	PINIO	PINIO or Motor												
M1		PC8	ESC1 Direct	Onboard ESCs												
M2	TIM3	PB0	ESC2 Direct													
M3		PB1	ESC3 Direct													
M4	TIM4	PB7	ESC4 Direct													
M5		PB8	PINIO	PINIO or Motor												
LED		PB6	PINIO													
M7	TIM12	PB14	Timers	Timers										Not DMA capable		
M8		PB15														