Asgard32 Public Test Version (Betaflight Target AG3X) Pin and Function Map

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Notes and Rules

*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 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.

Pad	Timer	Pin	Basic Functions	Receiver Options											Work Area
				PPM	SBUS	FrSky S.Port			FrSky F.Port						
				PPM	SBUS	S.Port (UIM) (*1)	S.Port (SS) (*2)	S.Port (XINV) (*3)	F.Port (UIM) (*1)	F.Port (SS) (*2)	F.Port (XINV) (*3)	DSM & Non-inverting serial RX	SRXL	CRSF & Full-duplex RX	
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	TIM2	PB10	FD-Serial	FD-Serial or Timers									Serial/Bind	TX	
RX3		PB11											Timer	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											
M6	TIM8	PC9	GPIO	GPIO or Motor											
M1		PC8	ESC1 Direct	Onboard ESCs											
M2	TIM3	PB0	ESC2 Direct												
M3		PB1	ESC3 Direct												
M4	TIM4	PB7	ESC4 Direct												
M5		PB8	GPIO	GPIO or Motor											
M7	TIM12	PB14	Timers	Timers											
M8		PB15													