

SAMD21 (Feather Zero) CPU Pinout						
Pin	Pin Functions	Feather Name	Feather Location	Feather Location	Proposed SeeStar Name	
1	PA00 / EINT0 / SERCOM1.0		XTAL			
2	PA01 / EINT1 / SERCOM1.1		XTAL			
3	PA02 / EINT2 / Y0 / VOUT	A0	JP1-12		INSTR_PWR_1	
4	PA03 / EINT3 / VREFA / AIN1	AREF	JP1-14		INSTR_PWR_2	
5	GNDA	GNDA				
6	VDDA	VDDA				
7	PB08 / I8 / AIN2 / SERCOM4.0	A1	JP1-11		TXD4	
8	PB09 / I9 / AIN3 / SERCOM4.1	A2	JP1-10		RXD4	
9	PA04 / EINT4 / VREFB / AIN4 / SERCOM0.0	A3	JP1-9		TC_CS	
10	PA05 / EINT5 / AIN5 / SERCOM0.1	A4	JP1-8		INSTR_PWR_3	
11	PA06 / EINT6 / AIN6 / SERCOM0.2	D8		Green LED		
12	PA07 / I7 / AIN7 / SERCOM0.3 / I2SD0	D9	JP3-8	VBat Monitor ??	GPIO	
13	PA08 / I2C / AIN16 / SERCOM0+2.0 / I2SD1	SD_CS		uSD Card pin 2		
14	PA09 / I2C / I9 / AIN17 / SERCOM0+2.1 / I2SMC	D3				?
15	PA10 / I10 / AIN18 / SERCOM0+2.2 / I2SCK	D1	JP1-2		TXD0	
16	PA11 / I11 / AIN19 / SERCOM0+2.3 I2SF0	D0	JP1-3		RXD0	
17	VDDIO	VDDIO				
18	GND	GND				
19	PB10 / I10 / SERCOM4.2 / I2SM	MOSI	JP1-5	uSD Card pin 3	MOSI	
20	PB11 / I11 / SERCOM4.3 / I2SC	SCK	JP1-6	uSD Card pin 5	SCK	
21	PA12 / I12 / I2C / SERCOM2+4.0	MISO	JP1-4	uSD Card pin 7	MISO	
22	PA13 / I13 / I2C / SERCOM2+4.1	N/C				
23	PA14 / I14 / SERCOM2+4.2	D2				?
24	PA15 / I15 / SERCOM3+4.3	D5	JP3-10		INSTR_PWR_4	
25	PA16 / I2C / I0 / SERCOM1+3.0	D11	JP3-6		TXD3	
26	PA17 / I2C / I1 / SERCOM1+3.1	D13	JP3-4	Red LED	TXD1	
27	PA18 / I2 / SERCOM1+3.2	D10	JP3-7		RXD3	
28	PA19 / I3 / SERCOM1+3.3 / I2SD0	D12	JP3-5		RXD1	
29	PA20 / I4 / SERCOM3+5.2 / I2SSC	D6	JP3-9		RXD5	
30	PA21 / I5 / SERCOM3+5.3 / I2SFS0	D7		uSD Card pin CD1		
31	PA22 / I2C / I6 / SERCOM3+5.0	SDA	JP3-12		SDA	
32	PA23 / I2C / I7 / SERCOM3+5.1 / SOF	SCL	JP3-11		SCL	
33	PA24 / I12 / SERCOM3+5.2 / D-	D-		USB Conn D-		
34	PA25 / I13 / SERCOM3+5.3 / D+	D+		USB Conn D+		
35						
36						
37	PB22 / I6 / SERCOM5.2	TXD				?
38	PB23 / I7 / SERCOM5.3	RXD				?
39	PA27 / I15	TXLED				?
40	*RESET	*RESET	JP1-16	Reset Switch SW1	*RESET	
41	PA28 / I8	USBHOSTEN				
42						
43	VDDCORE	VDDCORE				
44	VDDIN	VDDIN				
45	PA30 / I10 / SERCOM1.2 / SWCLK	SWCLK		TP1		
46	PA31 / I11 / SERCOM1.3 SWDIO	SWDIO		TP2		
47	PB02 / I2 / AIN10 / SERCOM5.0	A5	JP1-7		TXD5	
48	PB03 / I3 / AIN11 / SERCOM5.1	RXLED				?