

			A	B					C	D	E	F	G	H		
SAMD21G	I/O Pin	Supply	EIC	REF	ADC	AC	PTC	DAC	SERCOM	SERCOM-ALT	TC/TCC	TCC	COM	AC/GCLK	Other	Function
1	PA00	VDD-ANA	EXTINT[0]							SERCOM1/PAD[0]	TCC2/WO[0]				XOSC32K	Oscillator Input
2	PA01	VDD-ANA	EXTINT[1]							SERCOM1/PAD[1]	TCC2/WO[1]				XOSC32K	Oscillator Input
3	PA02	VDD-ANA	EXTINT[2]		AIN[0]		Y[0]	VOUT				TCC3/WO[0]				Temp Signal 1
4	PA03	VDD-ANA	EXTINT[3]	ADC/REFA DAC/REFA	AIN[1]		Y[1]					TCC3/WO[1]				Temp Signal 2
5	GND-ANA															Analog Return
6	VDD-ANA															Analog Vdd
7	PB08	VDD-ANA	EXTINT[8]		AIN[2]		Y[14]			SERCOM4/PAD[0]	TC4/WO[0]	TCC3/WO[6]				Temp Signal 3
8	PB09	VDD-ANA	EXTINT[9]		AIN[3]		Y[15]			SERCOM4/PAD[1]	TC4/WO[1]	TCC3/WO[7]				
9	PA04	VDD-ANA	EXTINT[4]	ADC/VREFB	AIN[4]	AIN[0]	Y[2]			SERCOM0/PAD[0]	TCC0/WO[0]	TCC3/WO[2]				
10	PA05	VDD-ANA	EXTINT[5]		AIN[5]	AIN[1]	Y[3]			SERCOM0/PAD[1]	TCC0/WO[1]	TCC3/WO[3]				
11	PA06	VDD-ANA	EXTINT[6]		AIN[6]	AIN[2]	Y[4]			SERCOM0/PAD[2]	TCC1/WO[0]	TCC3/WO[4]				
12	PA07	VDD-ANA	EXTINT[7]		AIN[7]	AIN[3]	Y[5]			SERCOM0/PAD[3]	TCC1/WO[1]	TCC3/WO[5]	I2S/SD[0]			
13	PA08	VDD-IO	NMI		AIN[16]		X[0]		SERCOM0/PAD[0]	SERCOM2/PAD[0]	TCC0/WO[0]	TCC1/WO[2]	I2S/SD[1]			
14	PA09	VDD-IO	EXTINT[9]		AIN[17]		X[1]		SERCOM0/PAD[1]	SERCOM2/PAD[1]	TCC0/WO[1]	TCC1/WO[3]	I2S/MCK[0]			
15	PA10	VDD-IO	EXTINT[10]		AIN[18]		X[2]		SERCOM0/PAD[2]	SERCOM2/PAD[2]	TCC1/WO[0]	TCC0/WO[2]	I2S/SCK[0]	GCLK_IO[4]		TXD Output
16	PA11	VDD-IO	EXTINT[11]		AIN[19]		X[3]		SERCOM0/PAD[3]	SERCOM2/PAD[3]	TCC1/WO[1]	TCC0/WO[3]	I2S/FS[0]	GCLK_IO[5]		RXD Output
17	VDD-IO															Digital Vdd
18	GND															Return
19	PB10	VDD-IO	EXTINT[10]							SERCOM4/PAD[2]	TC5/WO[0]	TCC0/WO[4]	I2S/MCK[1]	GCLK_IO[4]		SPI MOSI
20	PB11	VDD-IO	EXTINT[11]							SERCOM4/PAD[3]	TC5/WO[1]	TCC0/WO[5]	I2S/SCK[1]	GCLK_IO[5]		SPI SCK
21	PA12	VDD-IO	EXTINT[12]						SERCOM2/PAD[0]	SERCOM4/PAD[0]	TCC2/WO[0]	TCC0/WO[6]		AC/CMP[0]		SPI MISO
22	PA13	VDD-IO	EXTINT[13]						SERCOM2/PAD[1]	SERCOM4/PAD[1]	TCC2/WO[1]	TCC0/WO[7]		AC/CMP[1]		SPI_CS
23	PA14	VDD-IO	EXTINT[14]						SERCOM2/PAD[2]	SERCOM4/PAD[2]	TC3/WO[0]	TCC0/WO[4]		GCLK_IO[0]		Red PWM
24	PA15	VDD-IO	EXTINT[15]						SERCOM2/PAD[3]	SERCOM4/PAD[3]	TC3/WO[1]	TCC0/WO[5]		GCLK_IO[1]		
25	PA16	VDD-IO	EXTINT[0]				X[4]		SERCOM1/PAD[0]	SERCOM3/PAD[0]	TCC2/WO[0]	TCC0/WO[6]		GCLK_IO[2]		
26	PA17	VDD-IO	EXTINT[1]				X[5]		SERCOM1/PAD[1]	SERCOM3/PAD[1]	TCC2/WO[1]	TCC0/WO[7]		GCLK_IO[3]		
27	PA18	VDD-IO	EXTINT[2]				X[6]		SERCOM1/PAD[2]	SERCOM3/PAD[2]	TC3/WO[0]	TCC0/WO[2]		AC/CMP[0]		
28	PA19	VDD-IO	EXTINT[3]				X[7]		SERCOM1/PAD[3]	SERCOM3/PAD[3]	TC3/WO[1]	TCC0/WO[3]		AC/CMP[1]		LED 1 Shutdown
29	PA20	VDD-IO	EXTINT[4]				X[8]		SERCOM5/PAD[2]	SERCOM3/PAD[2]	TC7/WO[0]	TCC0/WO[6]	I2S/SCK[0]	GCLK_IO[4]		LED 2 Shutdown
30	PA21	VDD-IO	EXTINT[5]				X[9]		SERCOM5/PAD[3]	SERCOM3/PAD[3]	TC7/WO[7]	TCC0/WO[7]	I2S/FS[0]	GCLK_IO[5]		LED 3 Shutdown
31	PA22	VDD-IO	EXTINT[6]				X[10]		SERCOM3/PAD[0]	SERCOM5/PAD[0]	TC4/WO[0]	TCC0/WO[4]		GCLK_IO[6]		Green PWM
32	PA23	VDD-IO	EXTINT[7]				X[11]		SERCOM3/PAD[1]	SERCOM5/PAD[1]	TC4/WO[1]	TCC0/WO[5]	USB/SOF 1kHz	GCLK_IO[7]		
33	PA24	VDD-IO	EXTINT[12]						SERCOM3/PAD[2]	SERCOM5/PAD[2]	TC5/WO[0]	TCC1/WO[2]	USB/DM			USB Data Neg
34	PA25	VDD-IO	EXTINT[13]						SERCOM3/PAD[3]	SERCOM5/PAD[3]	TC5/WO[1]	TCC1/WO[3]	USB/DP			USB Data Pos
35	GND															Return
36	VDD-IO															Digital Vdd
37	PB22	VDD-IO	EXTINT[6]							SERCOM5/PAD[2]	TC7/WO[0]	TCC3/WO[0]		GCLK_IO[0]		Blue PWM
38	PB23	VDD-IO	EXTINT[7]							SERCOM5/PAD[3]	TC7/WO[1]	TCC3/WO[1]		GCLK_IO[1]		
39	PA27	VDD-IO	EXTINT[15]									TCC3/WO[6]		GCLK_IO[0]		Test LED Drive
40	*RESET															External Reset
41	PA28	VDD-IO	EXTINT[8]									TCC3/WO[7]		GCLK_IO[0]		
42	GND															Return
43	VDD-CORE															Core Vdd Output
44	VDD-IN															Vdd Input
45	PA30	VDD-IO	EXTINT[10]							SERCOM1/PAD[2]	TCC1/WO[0]	TCC3/WO[4]	SWCLK	GCLK_IO[0]		
46	PA31	VDD-IO	EXTINT[11]							SERCOM1/PAD[3]	TCC1/WO[1]	TCC3/WO[1]	SWDIO (5)			
47	PB02	VDD-ANA	EXTINT[12]		AIN[10]		Y[8]			SERCOM5/PAD[0]	TC6/WO[0]	TCC3/WO[2]				Amber PWM
48	PB03	VDD-ANA	EXTINT[3]		AIN[11]		Y[9]			SERCOM5/PAD[1]	TC6/WO[1]	TCC3/WO[3]				