

RPI					
J8 pin#	Name	RPI rev2.0 Name	ALT0	ALT1	ALT2
1	3.3v	3.3v			
2	5v	5v			
3	GPIO02	SDA1 (I2c)	SDA1		
4	5v	5v			
5	GPIO03	SCL1 (I2c)	SCL1		
6	GND	Ground			
7	GPIO04	GPIO_GCLK	GPCLK0		
8	GPIO14	TXD0	TXD0		
9	GND	Ground			
10	GPIO15	RXD0	RXD0		
11	GPIO17	GPIO_GEN0			
12	GPIO18	GPIO_GEN1	PCM_CLK		
13	GPIO27	GPIO_GEN2			
14	GND	Ground			
15	GPIO22	GPIO_GEN3			
16	GPIO23	GPIO_GEN4			
17	3.3v	3.3v			
18	GPIO24	GPIO_GEN5			
19	GPIO10	SPI_MOSI	SPI0_MOSI		
20	GND	Ground			
21	GPIO09	SPI_MISO	SPI0_MISO		
22	GPIO25	GPIO_GEN6			
23	GPIO11	SPI_CLK	SPI0_SCLK		
24	GPIO08	SPI0_CE0_N	SPI0_CE0_N		
25	GND				
26	GPIO07	SPI0_CE1_N	SPI0_CE1_N		

Reverse Mapping				
SAMD21E			RPI	
pin#	Name	Function	Pin	Name
1	PA00	PWM	GPIO17	GPIO_GEN0
2	PA01	PWM	GPIO22	GPIO_GEN3
3	PA02	SS Emul	GPIO07	SPI0_CE1_N
4	PA03	NC	NC	
5	PA04	PWM	GPIO18	GPIO_GEN1
6	PA05	PWM	GPIO23	GPIO_GEN4
7	PA06	PWM	GPIO27	GPIO_GEN2
8	PA07	PWM	GPIO24	GPIO_GEN5
9	VDDANA			
10	GND			
11	PA08	SPI	GPIO10	SPI_MOSI
12	PA09	SPI	GPIO09	SPI_MISO
13	PA10	SPI	GPIO08	SPI_CLK
14	PA11	SPI	GPIO11	SPI0_CE0_N
15	PA14	UART	GPIO14	TXD0

16	PA15	UART	GPIO15	RXD0
17	PA16	I ² C	GPIO02	SDA1 (I2c)
18	PA17	I ² C	GPIO03	SCL1 (I2c)
19	PA18	NC	NC	
20	PA19	NC	NC	
21	PA22	GCLK	GPIO04	GPIO_GCLK
22	PA23	PWM	GPIO25	
23	PA24	USB	NC	
24	PA25	USB	NC	
25	PA27	BUTTON A	NC	
26	RESETN	BUTTON B	NC	
27	PA28	LED	NC	
28	GND	GND		
29	VDDCORE			
30	VDDIN			
31	PA30	CORTEX DBG	NC	
32	PA31	CORTEX DBG	NC	

ALT3	ALT4	ALT5	Pull	Source	Name
				Regulator	Vout
				USB	Vbus
			High	PA16	SERCOM1
				USB	Vbus
			High	PA17	SERCOM1
				USB	GND
		ARM_TDI	High	PA22	GCLK
		TXD1	Low	PA14	SERCOM2
				USB	GND
		RXD1	Low	PA15	SERCOM2
RTS0		RTS1	Low	PA00	TCC2
SDA/MOSI	PWM0		Low	PA04	TCC0
SD1_DAT3	ARM_TMS		Low	PA06	TCC1
				USB	GND
SD1_CLK	ARM_TRST		Low	PA01	TCC2
SD1_CMD	ARM_RTCK		Low	PA05	TCC0
				Regulator	Vout
SD1_DAT0	ARM_TDO		Low	PA07	TCC1
			Low	PA08	SERCOM0
				USB	
			Low	PA09	SERCOM0
SD1_DAT1	ARM_TCK		Low	PA23	TCC0
			Low	PA11	SERCOM0
			High	PA10	SERCOM0
				USB	
			High	PA02	Emulated

I ² C
UART
SPI
GCLK
GPIO/PWM
NC

DonglePi		
Port	Purpose	Alt Modes
	Power	
	Power	
PAD[0]	I ² C	C
	Power	
PAD[1]	I ² C	C
	GND	
GCLK_IO[6]	GCLK	H
PAD[2]	UART	C
	GND	
PAD[3]	UART	C
WO[0]	PWM	E
WO[0]	PWM	E
WO[0]	PWM	E
	GND	
WO[1]	PWM	E
WO[1]	PWM	E
	Power	
WO[1]	PWM	E
PAD[0]	SPI	
	GND	
PAD[1]	SPI	
WO[5]	PWM	F
PAD[2]	SPI	
PAD[3]	SPI	
	GND	
Emulated	SPI	

