RPI									DonglePi					
J8 pin#	Name	RPi rev2.0 Name	ALT0	ALT1	ALT2	ALT3	ALT4	ALT5	Pull	Source	Name	Port	Purpose	Alt Modes
1	3.3v	3.3v								Regulator	Vout		Power	
2	5v	5v								USB	Vbus		Power	
3	GPIO02	SDA1 (I2c)	SDA1						High	PA16	SERCOM1	PAD[0]	I²C	C
4	5v	5v								USB	Vbus		Power	
5	GPIO03	SCL1 (I2c)	SCL1						High	PA17	SERCOM1	PAD[1]	I²C	C
6	GND	Ground								USB	GND		GND	
7	GPIO04	GPIO_GCLK	GPCLK0					ARM_TDI	High	PA22	GCLK	GCLK_IO[6]	GCLK	H
8	GPIO14	TXD0	TXD0					TXD1	Low	PA14	SERCOM2	PAD[2]	UART	C
9	GND	Ground								USB	GND		GND	
10	GPIO15	RXD0	RXD0					RXD1	Low	PA15	SERCOM2	PAD[3]	UART	C
11	GPIO17	GPIO_GEN0				RTS0		RTS1	Low	PA00	TCC2	WO[0]	PWM	E
12	GPIO18	GPIO_GEN1	PCM_CLK			SDA/MOSI	PWM0		Low	PA04	TCC0	WO[0]	PWM	E
13	GPIO27	GPIO_GEN2				SD1_DAT3	ARM_TMS		Low	PA06	TCC1	WO[0]	PWM	E
14	GND	Ground								USB	GND		GND	
15	GPIO22	GPIO_GEN3				SD1_CLK	ARM_TRST		Low	PA01	TCC2	WO[1]	PWM	E
16	GPIO23	GPIO_GEN4				SD1_CMD	ARM_RTCK		Low	PA05	TCC0	WO[1]	PWM	E
17	3.3v	3.3v								Regulator	Vout		Power	
18	GPIO24	GPIO_GEN5				SD1_DAT0	ARM_TDO		Low	PA07	TCC1	WO[1]	PWM	E
19	GPIO10	SPI_MOSI	SPI0_MOSI						Low	PA08	SERCOM0	PAD[0]	SPI	
20	GND	Ground								USB			GND	
21	GPIO09	SPI_MISO	SPI0_MISO						Low	PA09	SERCOM0	PAD[1]	SPI	
22	GPIO25	GPIO_GEN6				SD1_DAT1	ARM_TCK		Low	PA23	TCC0	WO[5]	PWM	F
23	GPIO11	SPI_CLK	SPI0_SCLK						Low	PA11	SERCOM0	PAD[2]	SPI	
24	GPIO08	SPI0_CE0_N	SPI0_CE0_N						High	PA10	SERCOM0	PAD[3]	SPI	
25	GND									USB			GND	
26	GPIO07	SPI0_CE1_N	SPI0_CE1_N						High	PA02	Emulated	Emulated	SPI	

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	I²C	GPIO02	SDA1 (I2c)
18	PA17	I²C	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	

Legend:
- I²C
- UART
- SPI
- GCLK
- GPIO/PWM
- NC