

PIO muxing and jumper settings

PIOA	PERIPHERAL	FUNCTION
PA0	SDMMC0	D0
PA1	SDMMC0	CMD
PA2	SDMMC0	CLK
PA3	SDMMC0	D1
PA4	SDMMC0	D2
PA5	SDMMC0	D3
PA6	SDMMC1	D1
PA7	SDMMC1	D2
PA8	SDMMC1	D3
PA9	SDMMC1	D0
PA10	M.2 WiFi	MIO
	SDMMC1	CMD
PA11	M.2 WiFi	MOSI
	SDMMC1	CS
PA12	M.2 WiFi	SCK
PA12	MCP16502	INT
PA13	M.2 WiFi	SPI CS
PA13	RPI 40Pin	GPIO16
PA14	M.2 BLE	CTS
PA15	M.2 BLE	RX
PA16	M.2 BLE	TX
PA17	MIKROBUS 1/2	NRST
PA18	RPI 40Pin	GPIO25
	CLASSD	GPIO17
PA19	RPI 40Pin	GPIO27
	CLASSD	GPIO17
PA20	MIPI	IRQ
	LVDS	IRQ
	RGB	IRQ1
	RGB	IRQ2
	RGB	IRQ
PA21	M.2 WiFi	NRST
	RPI 40Pin	GPIO23
PA22	RPI 40Pin	GPIO24
PA23	SDMMC0	CD
PA24	MCP16502	PAC1934
	EEPROM	TWD
	GMACO	
	ISC	
	MCP16502	
PA25	PAC1934	
	EEPROM	TWCK
	GMACO	
	ISC	
	MCP16502	
PA26	DBGU	RXD
PA27	DBGU	TXD
PA28	MIKROBUS 1/2	
	RPI	TXD
PA29	MIKROBUS 1/2	
	RPI	RXD
PA30	M.2 BLE	RTS
PA31	RPI	AN

PIOB	PERIPHERAL	FUNCTION
PB0	GMACO	RX2
PB1	GMACO	RX3
PB2	GMACO	REFCLK
PB3	GMACO	RXCCTL
PB4	GMACO	TX2
PB5	GMACO	TX3
PB6	GMACO	TXCK
PB7	GMACO	TXEN
PB8	GMACO	RXCK
PB9	GMACO	MDIO
PB10	GMACO	MDC
PB11	GMACO	RX0
PB12	GMACO	RX1
PB13	GMACO	TX0
PB14	GMACO	TX1
PB15	RPI 40Pin	I2S WS
PB16	RPI 40Pin	I2S DIN0
PB17	RPI 40Pin	I2S DOUT0
PB18	MIKROBUS 1/2	
	USBA	Interrupt
PB19	QSPI Flash	SCK
PB20	QSPI Flash	CS
PB21	QSPI Flash	IO0
PB22	QSPI Flash	IO1
PB23	QSPI Flash	IO2
PB24	QSPI Flash	IO3
PB25	RPI 40Pin	GPLCK0
PB26	RPI 40Pin	I2S CK

PIOC	PERIPHERAL	FUNCTION
PC0	ISC	D0
	RGB	
	LVDS	
	MIPI	TWD
	MIKROBUS 1/2	
PC1	RPI 40Pin	
	M.2 WiFi	
	ISC	D1
	RGB	
	LVDS	TWCK
PC2	MIPI	
	MIKROBUS 1/2	
	RPI 40Pin	
	M.2 WiFi	
	ISC	D2
PC3	LVDS	D0 N
	RGB	D2
	ISC	D3
	LVDS	D0 P
	RGB	D3
PC4	LVDS	D1 N
	RGB	D4
	ISC	D5
	LVDS	D1 P
	RGB	D5
PC5	ISC	D6
	LVDS	D2 N
	RGB	D6
	ISC	D7
	LVDS	D2 P
PC6	RGB	D7
	ISC	D8
	USBA	VBUSDET
	ISC	D9
	USBA	BUTTON
PC7	LVDS	CK N
	RGB	D10
	ISC	D11
	LVDS	CK P
	RGB	D11
PC8	ISC	D12
	LVDS	D3 N
	RGB	D12
	ISC	VSYN
	LVDS	D3 P
PC9	RGB	D13
	ISC	HSYN
	LED	RED
	RGB	D14
	ISC	NCK
PC10	RPI 40Pin	GPLCK1
	RGB	D15
	RGB	CS
	ISC	PWDN
	M.2 WiFi	WAKE UP
PC11	M.2 WiFi	IRQ
	RPI 40Pin	GPLCK0
PC12	ISC	
	LVDS	
	RGB	
	ISC	
	LVDS	
PC13	RGB	
	ISC	
	LED	
	RGB	
	ISC	
PC14	RGB	
	ISC	
	RGB	
	ISC	
	RGB	
PC15	RGB	
	ISC	
	RGB	
	ISC	
	RGB	
PC16	RGB	
	ISC	
	RGB	
	ISC	
	RGB	
PC17	RGB	
	ISC	
	RGB	
	ISC	
	RGB	

PIOC	PERIPHERAL	FUNCTION
PC18	MIPI	PWM
	LVDS	PWM
	RPI 40Pin	PWM0
	RGB	D18
	RPI 40Pin	GPIO26
PC19	MIKROBUS 1	CS
	LED	BLUE
	RGB	PWM
	RPI 40Pin	PWM1
	RGB	D20
PC20	MIKROBUS 1/2	PWM
	LED	GREEN
	RGB	D21
	MIKROBUS 1/2	
	RPI 40Pin	
PC21	GMACO	MOSI
	USBA PD	
	RGB	D22
	MIKROBUS 1/2	
	RPI 40Pin	
PC22	RGB	
	GMACO	
	USBA PD	
	RGB	
	MIKROBUS 1/2	
PC23	RPI 40Pin	MISO
	RGB	
	GMACO	
	USBA PD	D23
	RGB	CS
PC24	USBA PD	DISP
	RGB	GPLCK2
	RPI 40Pin	NRST OUT
	RESET OUT	
	GMACO	CS
PC25	RPI 40Pin	NPCSD
	MIKROBUS 1/2	
	RPI 40Pin	
	RGB	
	GMACO	
PC26	USBA PD	
	RGB	
	GMACO	
	USBA PD	
	RGB	VSYN
PC27	USBB	EN
	RGB	HSYN
PC28	USBB	OC
	RGB	DEN
PC29	USBB	OC
	MIPI	EN
PC30	LVDS	EN
	RGB	PCK
	RPI 40Pin	NPCSD
	ISC	PWR EN
	RGB	ID
PC31	USBB	EN
	USBB	
	USBB	
	USBB	
	USBB	

PIOD	PERIPHERAL	FUNCTION
PD0	NAND Flash	OE
PD1	NAND Flash	WE
PD2	NAND Flash	ALE
PD3	NAND Flash	CLE
PD4	NAND Flash	CS
PD5	GMACO	INT
PD6	NAND Flash	D0
PD7	NAND Flash	D1
PD8	NAND Flash	D2
PD9	NAND Flash	D3
PD10	NAND Flash	D4
PD11	NAND Flash	D5
PD12	NAND Flash	D6
PD13	NAND Flash	D7
PD14	NAND Flash	RDY

Header	Function	Default position
J83	Always/PMIC selectable VDD_3V3_B enable	2-3 (Always)
J85	VBAT series jumper	1-2
J2, J3	PAC1934 TWI selection MPU/MCP2221A	1-2 (MCP2221A)
J65, J67	DEBUG UART selection FTDI/MCP2221A	1-2 (FTDI)
J81	CAN1 Standby	1-2
J77	NAND Chip Select	1-2
J78	QSPI Chip Select	1-2
J97	M.2 WiFi Interface select	2-3

Project Owner:
SMS
PCB Layout Contact:
SMS

Project Title
Variant: Standard
SAM9X75 Curiosity Pro

Part Number:
02-01213
Sheet Title
PIO Muxing

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Rev: 1
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Designed with