

DEFAULT NO POPULATE PARTS

PAGE	REFERENCE	FUNCTION
2	R47	Disconnect internal LDO
	R196	Optional pull up for TDI-3U
	R198	Optional pull up for NRST-3U
	C72	EMI obsorbing Cap
3	R148	Optional pull up for TCKOUT
	R150	Optional pull up for TRSTOUT and TRSTIN
	R151	Optional pull up for TDIIN or TDIOUT
	R152	Optional pull up for TMSOUT and TMSIN
	R27	Optional pull up for serial flash NCS.
	R178	Optional pull up for Upper bit of SRAM CS
	R179	Optional pull up for lowerr bit of SRAM CS
4	R208	Optional jumper for PC14 to roll back to RevA
	R22	Optional pull up for PA3 (SDA)
	R23	Optional pull up for PA4 (SCL)
	C73	EMI obsorbing Cap
	MN7	SERIAL FLASH

PIO MUXING

Two 512KB SRAM is assigned on SMC BUS, one is located on NCS0, and another one is located on NCS1

PIOA	USAGE	PIOA USAGE	PIOB USAGE	PIOC USAGE	PIOC USAGE
PA0	SMC_A17	PA16 J3.6	PB0 J2.3 default	PC0 SMC_D0	PC16 N/A
PA1	SMC_A18	PA17 J2.5	PB1 J2.4	PC1 SMC_D1	PC17 User LED D10
PA2	J3.7 default	PA18 J3.4 & SMC_A14	PB2 J1.3 & J4.3	PC2 SMC_D2	PC18 SMC_A0
PA3	J1.1 & J4.1	PA19 J3.4 optional & SMC_A15	PB3 J1.4 & J4.4	PC3 SMC_D3	PC19 SMC_A1
PA4	J1.2 & J4.2	PA20 J3.1 & SMC_A16	PB4 JTAG	PC4 SMC_D4	PC20 SMC_A2
PA5	User_button BP2	PA21 J2.6	PB5 JTAG	PC5 SMC_D5	PC21 SMC_A3
PA6	J3.7 optional	PA22 J2.1	PB6 JTAG	PC6 SMC_D6	PC22 SMC_A4
PA7	CLK_32K	PA23 J3.3	PB7 JTAG	PC7 SMC_D7	PC23 SMC_A5
PA8	CLK_32K	PA24 TSLIDR_SL_SNS	PB8 CLK_12M	PC8 SMC_NWE	PC24 SMC_A6
PA9	RX_UART0	PA25 TSLIDR_SL_SNSK	PB9 CLK_12M	PC9 Power on detect	PC25 SMC_A7
PA10	TX_UART0	PA26 TSLIDR_SM_SNS	PB10 USB_DDM	PC10 User LED D9	PC26 SMC_A8
PA11	J3.2 default	PA27 TSLIDR_SM_SNSK	PB11 USB_DDP	PC11 SMC_NRD	PC27 SMC_A9
PA12	MISO	PA28 TSLIDR_SR_SNS	PB12 ERASE	PC12 J2.2	PC28 SMC_A10
PA13	MOSI	PA29 TSLIDR_SR_SNSK	PB13 J2.3 optional	PC13 J2.7	PC29 SMC_A11
PA14	SPCK	PA30 J4.5	PB14 N/A	PC14 SMC_NCS0	PC30 SMC_A12
PA15	J3.5	PA31 J1.5		PC15 SMC_NSC1	PC31 SMC_A13

JUMPER and SOLDERDROP

PAGE	REFERENCE	DEFAULT	FUNCTION
2	JP7	CLOSE	Power SAM4S16
4	JP15	OPEN	SAM4S16 ERASE

TEST POINT

PAGE	REFERENCE	FUNCTION		
2	TP7, TP8, TP9, TP10	GND		
	TP13	VDDCORE-4S		
	TP14	VDDCORE-3U		
	TP15	VDDIN-3U		
	TP22	Power Good of U5		
	TP29	Input of U6		
	TP1	SAM3U4 Erase		
3	TP2			
	TP3			
	TP4			
	TP5	OB JLlink Disable (low)		
	TP12	ADREF		
4	TP16	DBGU_RX		
TP17		DBGU_TX		
	TP18	OB_JLINK_TDI		
	TP19	OB_JLINK_TMS		
	TP20	OB_JLINK_TCK		
	TP21	OB_JLINK_TDO		
	TP28	JTAGSEL		

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		REV	MODIF.	DES.	DATE	VER.	DATE
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