

## PIO Muxing & Jumper setting

LCD			
NC	1	LCDDAT19	26
GND	2	GND	27
LCDDAT0	3	LCDDAT20	28
LCDDAT1	4	LCDDAT21	29
LCDDAT2	5	LCDDAT22	30
LCDDAT3	6	LCDDAT23	31
GND	7	GND	32
LCDDAT4	8	LCDPCK	33
LCDDAT5	9	LCDSVSYNC	34
LCDDAT6	10	LCDSVSYNC	35
LCDDAT7	11	LCDDEN	36
GND	12	SPI0_SPCK	37
LCDDAT8	13	SPI0_MOSI	38
LCDDAT9	14	SPI0_MISO	39
LCDDAT10	15	SPI0_NPCS0	40
LCDDAT11	16	LCDDISP	41
GND	17	TWD1	42
LCDDAT12	18	TWCK1	43
LCDDAT13	19	IRQ1	44
LCDDAT14	20	IRQ2	45
LCDDAT15	21	LCDFPWM	46
GND	22	NRST	47
LCDDAT16	23	VCC	48
LCDDAT17	24	VCC	49
LCDDAT18	25	GND	50

PIOA	USAGE	PIOA	USAGE	PIOB	USAGE	PIOB	USAGE	PIOC	USAGE
PA0	SDMMC0_CK	PA16	SPI0_MISO	PB0	INT_mBUS1	PB16	LCDDAT5	PC0	LCDDAT21
PA1	SDMMC0_CDA	PA17	SPI0_NPCS0	PB1	LED_Green/PWM_mBUS1	PB17	LCDDAT6	PC1	LCDDAT22
PA2	SDMMC0_DA0	PA18	SDMMC1_DAT0	PB2	RST_mBUS1	PB18	LCDDAT7	PC2	LCDDAT23
PA3	SDMMC0_DA1	PA19	SDMMC1_DAT1	PB3	RX_mBUS1	PB19	LCDDAT8	PC3	LCDFPWM
PA4	SDMMC0_DA2	PA20	SDMMC1_DAT2	PB4	TX_mBUS1	PB20	LCDDAT9	PC4	LCDDISP
PA5	SDMMC0_DA3	PA21	SDMMC1_DAT3	PB5	QSPI1_SCK	PB21	LCDDAT10	PC5	LCDSVSYNC
PA6	SDMMC0_DA4	PA22	SDMMC1_CK	PB6	QSPI1_CS	PB22	LCDDAT11	PC6	LCDSVSYNC
PA7	SDMMC0_DA5	PA23	TWCK_mBUS1&2	PB7	QSPI1_IO0	PB23	LCDDAT12	PC7	LCDFPCK
PA8	SDMMC0_DA6	PA24	TWD_mBUS1&2	PB8	QSPI1_IO1	PB24	LCDDAT13	PC8	LCDDEN
PA9	SDMMC0_DA7	PA25	INT_mBUS2	PB9	QSPI1_IO2	PB25	LCDDAT14	PC9	ISC_D0
PA10	LED_Red	PA26	RST_mBUS2	PB10	QSPI1_IO3	PB26	LCDDAT15	PC10	ISC_D1
PA11	SDMMC0_VDDSEL	PA27	USBB_POWR_EN	PB11	LCDDAT0	PB27	LCDDAT16	PC11	ISC_D2
PA12	SDMMC0_WP	PA28	SDMMC1_CDA	PB12	LCDDAT1	PB28	LCDDAT17	PC12	ISC_D3
PA13	SDMMC0_CD	PA29	User Button	PB13	LCDDAT2	PB29	LCDDAT18	PC13	ISC_D4
PA14	SPI0_SPCK	PA30	SDMMC1_CD	PB14	LCDDAT3	PB30	LCDDAT19	PC14	ISC_D5
PA15	SPI0_MOSI	PA31	LED_blue/PWM_mBUS2	PB15	LCDDAT4	PB31	LCDDAT20	PC15	ISC_D6

PIOC	USAGE	PIOD	USAGE	PIOD	USAGE
PC16	ISC_D7	PD0	NPCS1_mBUS2	PD16	NA
PC17	ISC_D8	PD1	IRQ1	PD17	NA
PC18	ISC_D9	PD2	DBGU_RXD	PD18	NA
PC19	ISC_D10	PD3	DBGU_TXD	PD19	USBB_OVCCR
PC20	ISC_D11	PD4	TWD_LCD_ISC	PD20	USBA_VBUS_SV
PC21	ISC_PCK	PD5	TWCK_LCD_ISC	PD21	TWDO
PC22	ISC_VSYNC	PD6	ISC_RST	PD22	TWCK0
PC23	ISC_HSYNC	PD7	ISC_PWD	PD23	RX_mBUS2
PC24	ISC_MCK	PD8	BB_PWR_GOOD	PD24	TX_mBUS2
PC25	IRQ2	PD9	NA	PD25	AN_mBUS1
PC26	CANTX1	PD10	NA	PD26	AN_mBUS2
PC27	CANRX1	PD11	NA	PD27	SOM_TCK
PC28	MOSI_mBUS1&2	PD12	NA	PD28	SOM_TDI
PC29	MISO_mBUS1&2	PD13	NA	PD29	SOM_TDO
PC30	SPCK_mBUS1&2	PD14	NA	PD30	SOM_TMS
PC31	NPCS0_mBUS1	PD15	NA	PD31	NA

JUMPER DESCRIPTION		
PART	DEFAULT	FUNCTION
J1	CLOSE	1 VDD_MAIN_5V Measurement
J2	CLOSE	1 VDD_3V3 Measurement
J4	CLOSE	1 VDDBU Measurement
J7	OPEN	Disable JLINK JTAG
J8	OPEN	ERASE SAM3U
J9	OPEN	Disable JLINK CDC
J13	OPEN	Disable boot
J22	CLOSE	POWER SELECT
J28	CLOSE	POWER SELECT

Drawn By:  
DJ  
Engineer:  
DJ

PartNumber:

Project Title

**SAMASD27-SOM1-EK1**

Sheet Title

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Size B

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