

PIO muxing and jumper settings

PIOA	PERIPHERAL	FUNCTION
PA0	NAND Flash	WE
PA1	NAND Flash	ALE
PA2	NAND Flash	CLE
PA3	NAND Flash	D0
PA4	NAND Flash	D1
PA5	NAND Flash	D4
PA6	NAND Flash	D5
PA7	NAND Flash	D6
PA8	NAND Flash	D7
PA9	NAND Flash	D2
PA10	NAND Flash	D3
PA11	NAND Flash	RDY
PA12	NAND Flash	RE
PA13	NAND Flash	CS
PA14	USB-PD	SPI CS
PA15	MIKROBUS 2	SPI CS
PA16	MIKROBUS 1	SPI CS
PA17	MIKROBUS 2	SPI SCK
PA18	MIKROBUS 1	SPI SCK
PA19	MIKROBUS 2	SPI SCK
PA20	MIKROBUS 1	SPI SCK
PA21	MIKROBUS 2	SPI SCK
PA22	MIKROBUS 1	SPI SCK
PA23	MIKROBUS 2	SPI SCK
PA24	MIKROBUS 1	SPI SCK
PA25	MIKROBUS 2	SPI SCK
PA26	MIKROBUS 1	SPI SCK
PA27	MIKROBUS 2	SPI SCK
PA28	MIKROBUS 1	SPI SCK
PA29	MIKROBUS 2	SPI SCK
PA30	MIKROBUS 1	SPI SCK
PA31	MIKROBUS 2	SPI SCK

PIOB	PERIPHERAL	FUNCTION
PB0	GMAC0	MDIO
PB1	GMAC0	TXCK
PB2	GMAC0	RX2
PB3	GMAC0	RXCK
PB4	GMAC0	TX2
PB5	GMAC0	TX3
PB6	GMAC0	RX3
PB7	MIKROBUS 1	INT
PB8	QSPI Flash	IO3
PB9	QSPI Flash	IO2
PB10	QSPI Flash	IO1
PB11	QSPI Flash	IO0
PB12	QSPI Flash	CS
PB13	QSPI Flash	SCK
PB14	MIPI LCD	PWM
PB15	MIPI LCD	PWM
PB16	MIPI LCD	PWM
PB17	MIPI LCD	PWM
PB18	MIPI LCD	PWM
PB19	MIPI LCD	PWM
PB20	MIPI LCD	PWM
PB21	MIPI LCD	PWM
PB22	MIPI LCD	PWM
PB23	MIPI LCD	PWM
PB24	MIPI LCD	PWM
PB25	MIPI LCD	PWM
PB26	MIPI LCD	PWM
PB27	MIPI LCD	PWM
PB28	MIPI LCD	PWM
PB29	MIPI LCD	PWM
PB30	MIPI LCD	PWM
PB31	MIPI LCD	PWM

PIOC	PERIPHERAL	FUNCTION
PC0	RPI 40Pin	GPCLK2
PC1	GMAC0	CC2
PC2	MCP16502	Interrupt
PC3	RPI 40Pin	GPIO17
PC4	RPI 40Pin	GPIO27
PC5	MIKROBUS 1	AN Input
PC6	MIKROBUS 2	AN Input
PC7	MIKROBUS 1	AN Input
PC8	MIKROBUS 2	AN Input
PC9	MIKROBUS 1	AN Input
PC10	MIKROBUS 2	AN Input
PC11	MIKROBUS 1	AN Input
PC12	MIKROBUS 2	AN Input
PC13	MIKROBUS 1	AN Input
PC14	MIKROBUS 2	AN Input
PC15	MIKROBUS 1	AN Input
PC16	MIKROBUS 2	AN Input
PC17	MIKROBUS 1	AN Input
PC18	MIKROBUS 2	AN Input
PC19	MIKROBUS 1	AN Input
PC20	MIKROBUS 2	AN Input
PC21	MIKROBUS 1	AN Input
PC22	MIKROBUS 2	AN Input
PC23	MIKROBUS 1	AN Input
PC24	MIKROBUS 2	AN Input
PC25	MIKROBUS 1	AN Input
PC26	MIKROBUS 2	AN Input
PC27	MIKROBUS 1	AN Input
PC28	MIKROBUS 2	AN Input
PC29	MIKROBUS 1	AN Input
PC30	MIKROBUS 2	AN Input
PC31	MIKROBUS 1	AN Input

PIOD	PERIPHERAL	FUNCTION
PD0	M.2 SDMMC2	DAT3
PD1	M.2 WiFi	Interrupt
PD2	RPI 40Pin	GPIO22
PD3	M.2 WiFi	Interrupt
PD4	RPI 40Pin	GPIO23
PD5	M.2 WiFi	Interrupt
PD6	M.2 WiFi	Interrupt
PD7	M.2 WiFi	Interrupt
PD8	M.2 WiFi	Interrupt
PD9	M.2 WiFi	Interrupt
PD10	M.2 WiFi	Interrupt
PD11	M.2 WiFi	Interrupt
PD12	M.2 WiFi	Interrupt
PD13	M.2 WiFi	Interrupt
PD14	M.2 WiFi	Interrupt
PD15	M.2 WiFi	Interrupt
PD16	M.2 WiFi	Interrupt
PD17	M.2 WiFi	Interrupt
PD18	M.2 WiFi	Interrupt
PD19	M.2 WiFi	Interrupt
PD20	M.2 WiFi	Interrupt
PD21	M.2 WiFi	Interrupt
PD22	M.2 WiFi	Interrupt
PD23	M.2 WiFi	Interrupt
PD24	M.2 WiFi	Interrupt
PD25	M.2 WiFi	Interrupt
PD26	M.2 WiFi	Interrupt
PD27	M.2 WiFi	Interrupt
PD28	M.2 WiFi	Interrupt
PD29	M.2 WiFi	Interrupt
PD30	M.2 WiFi	Interrupt
PD31	M.2 WiFi	Interrupt

PIOE	PERIPHERAL	FUNCTION
PE0	GMAC1	TX2
PE1	GMAC1	TX3
PE2	GMAC1	RXCK
PE3	GMAC1	Interrupt
PE4	LVDS	D0 N
PE5	LVDS	D0 P
PE6	LVDS	D1 N
PE7	LVDS	D1 P
PE8	LVDS	D2 N
PE9	LVDS	D2 P
PE10	LVDS	D3 N
PE11	LVDS	D3 P
PE12	LVDS	CK N
PE13	LVDS	CK P

PIOBU	PERIPHERAL	FUNCTION
PIOBU0	GMAC1	MPU WAKE
PIOBU1	GMAC2	MPU WAKE
PIOBU2	M.2 WiFi	M.2 WAKE
PIOBU3	J73 connector	N/A

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)
J45	uSD-SDMMC1 Volt select	2-3
J81	CAN1, CAN2, CAN3 Standby	1-2, 3-4, 5-6
J77	NAND Chip Select	1-2
J37	GMAC1 25MHz Clock enable	1-2
J78	QSPI0 Chip Select	1-2
J97	M.2 WiFi Interface select	2-3
J65, J67	DEBUG UART selection FTDI/MCP2221A	2-3 (FTDI)

Project Owner:
SMS
PCB Layout Contact:
SMS



Part Number:
02-01341
Sheet Title:
PIO Muxing

Project Title:
SAMA7D65 Curiosity Pro
Variant: Standard

Size:
B
File: 02 - PIO muxing and jumper settings

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Designed with:
Altium