Feature	PinDescription Array Number	Mapped Pin Name	SAM3X Pin Name	M2 Board Signal Name	Notes
LEDs	14	DS2	PD10	DS2 (RED)	
	15	DS3	PA5	DS3 (YELLOW)	
	16	DS4	PD2	DS4 (YELLOW)	
	17	DS5	PA15	DS5 (YELLOW)	
	18	DS6	PA14	DS6 (GREEN)	
	19	DS7_BLUE / RGB_BLUE	PC25	RGB BLUE	
	20	DS7_RED / RGB_RED	PD7	RGB RED	
	21	DS7_GREEN / RGB_GREEN	PD8	RGB GREEN	
Buttons	22	BUTTON1	PC27	TACT SW1	User Button R/H side
	23	BUTTON2	PB6	TACT SW2	User Button L/H side
SD Card MOSI	36	SD_SW	PC30	SD_SW	Card is inserted - LOW.
	37	MCCK	PA19	MCCK	
	38	MCCDA	PA20	MCCDA	
	39	MCDA0	PA21	MCDA0	
	40	MCDA1	PA22	MCDA1	
	41	MCDA2	PA23	MCDA2	
	42	MCDA3	PA24	MCDA3	
SD Card SPI	46	SPI0_CS1	PA29	SPI0_nCS1	
	44	SPI0_MOSI	PA26	SPI0 MOSI	
	45	SPI0_CLK	PA27	SPI0 CLK	
	43	SPI0_MISO	PA25	SPI0 MISO	
GPIO	24	GPIO1	PC3	GPIO1 A	PWMH0
	25	GPIO2	PC5	GPIO2 A	PWMH1
	26	GPIO3	PC7	GPIO3 A	PWMH2
	27	GPIO4	PC9	GPIO4 A	PWMH3
	28	GPIO5	PC20	GPIO5 A	PWMH4
	29	GPIO6	PC19	GPIO6 A	PWMH5
	30	GPIO1_B	PC2	GPIO1 B	PWML0
	31	GPIO2_B	PC4	GPIO2 B	PWML1
	32	GPIO3_B	PC6	GPIO3 B	PWML2
	33	GPIO4_B	PC8	GPIO4 B	PWML3
	34	GPIO5_B	PC21	GPIO5 B	PWML4
	35	GPIO6_B	PC22	GPIO6 B	PWML5
Analogue Inputs	86	ANALOG_1	PB19	ANA 1	
	87	ANALOG_2	PB18	ANA 2	
	88	ANALOG_3	PA2	ANA 3	
	89	ANALOG_4	PA4	ANA 4	
	90	ANALOG_5	PA3	ANA 5	
	91	ANALOG_6	PA16	ANA 6	
GPIO Power Supply Current Sense	75	I_SENSE_EN	PC24	12Vio_EN	GPIO Power Supply Enable
	93	I_SENSE	PB17	I SENSE 12V	GPIO Power Supply Analog Current Sense
	76	I-SENSE_INT	PD1	OVER_CURRENT	GPIO Power Supply Interrupt
	95	I-SENSE_DAC	PB16	DAC1	GPIO Power Supply Analog Output to Comparator
CAN	69	CANRX0	PA1	CANRX0	
	70	CANTX0	PA0	CANTX0	
	71	CAN0_CS / HS_CS	PD3	HSC_S	
	72	CANRX1	PB15	CANRX1	
	73	CANTX1	PB14	CANTX1	
	25	CAN1_CS / MS_CS	PD0	MSC_S	
Power Supply	48	PS_BUCK / BUCK_DIS	PC10	BUCK_nDIS	
	49	PS_J1850_9141	PB5	J1850 9141 ON	Bring LOW for LOW power
J1850	50	J1850PWM_VPW	PB8	J1850_PWM_nVPW	
	51	J1850_PWM_RX	PC28	J1850_PWM_RX	
	52	J1850_VPW_RX	PC26	J1850_VPW_RX	
	53	J1850P_TX	PC18	J1850+_TX	
	54	J1850N_TX	PC23	J1850-_TX	
XBEE	0	XBEE_RX / RX0	PA8	XB_UART RX	UART serial URXD
	1	XBEE_TX / TX0	PA9	XB_UART TX	UART serial UTXD
	4	XBEE_RST	PC11	XB_nRST	
	7	XBEE_PWM	PB3	XB_RSSI_PWM	
	11	XBEE_MULT4	PD6	XB_MULT4	
	12	XBEE_MULT5	PD9	XB_MULT5	
	8	XBEE_MULT1	PC12	XB_MULT1	
	3	XBEE_CTS	PB26	XB_nCTS	
	5	XBEE_STAT	PC13	XB_STAT	
	6	XBEE_VREF	PC14	XB_Vref	

	9	XBEE_MULT2	PC15	XB_MULT2	
	2	XBEE_RTS	PB25	XB_nRTS	
	10	XBEE_MULT3	PC17	XB_MULT3	
	13	XBEE_MULT6	PA7	XB_MULT6	
9141/LIN	55	LIN_KTX	PA11	9141 K TX	Serial1
	56	LIN_KRX	PA10	9141 K RX	
	57	LIN_KSLP	PB4	9141 K SLP	
	58	LIN_LTX	PA13	9141 L TX	Serial2
	59	LIN_LRX	PA12	9141 L RX	
	60	LIN_LSLP	PB7	9141 L SLP	
Single Wire CAN	65	SWC_M1	PB0	SWC M1	
	64	SWC_M0	PB27	SWC M0	
	68	SWC_SOF	PC29	SWC SOF	
	66	SWC_CLK	PB22	SWC CLK	
	63	SPI0_CS3	PB23	SPI0_nCS3	
	67	SWC_INT	PC16	SWC nINT	
	61	SWC_RX0	PB1	SWC nRX0BF	
	62	SWC_RX1	PB2	SWC nRX1BF	
SPI0	43	SPI0_MISO	PA25	SPI0 MISO	SD Card
	44	SPI0_MOSI	PA26	SPI0 MOSI	SD Card
	45	SPI0_CLK	PA27	SPI0 CLK	SD Card
	46	SPI0_CS1	PA29	SPI0_nCS1	SD Card
	47	SPI0_CS0	PA28	SPI0_nCS0	
GPIO Connector	77	TXD3	PD4	UART3 TX	3.3V USART3 Serial3 GPIO Connector
	78	RXD3	PD5	UART3 RX	
	79	SDA0	PA17	SDA0	GPIOConnector
	80	SCL0	PA18	SCL0	
	83	SPI_CS2	PB21	USART2RX	TP4 U2RX
MISC	92	V_SENSE	PA6	AD3	Analogue input Vehicle Volts
	94	CPU_TEMP / A15	PD5	Internal	CPU Temperature
Eeprom Memory (I2C)	81	SDA1	PB12	SDA1	Eeprom
	82	SCL1	PB13	SCL1	
CPU Test Point	84	USART2TX	PB20	USART2TX	TP5 U2TX
unconnected	85	unconnected	PC1	unconnected	not connected