

	PIN#	Module Pin Name	Coldfire 5282	Atmel 9260	Atmel 9G20	Atmel 9x25	Atmel A5D35
System Control	100	GP_CS1	~CS1~/PJ1	NCS3/IRQ2/PC14	NCS0	NCS2/D29	NCS1/TIOA2
	98	GP_CS2	~CS2~/PJ2	NC	PC9/NCS5/TIOB0	NCS4/D30	NCS2/TIOB2
	108	GP_CS3	~CS3~/PJ3	NCS4/RTS3/PC8	PC8/NCS4/RTS3	NCS5/D31	NCS3/NANDCS
	16	~RD~/OE	~OE~/PE7	NRD	NRD	NRD	NRD/NANDOE
	83	~WR	R/~W~/PE4	NWR0/NWE	NWR0/NWE	NWRE/NWR0	NWE/NANDWE
	6	~RST_IN	~RSTIN	~RST_IN	~RST_IN	SOM_RST_IN	SOM_RST_IN
	43	~RST_OUT	~RSTOUT	~RST_OUT	~RST_OUT	SOM_RST_OUT	SOM_RST_OUT
	44	~EA	~TEA~/PE5	SHDN	SHDN	SHDN	SHDN
	85	Flash WP	TIP/STATUS LED	NC	DATA FLASH WP	Dataflash WP	Dataflash WP
72	ALE~/TS	~TS~/PE1/SYNCA	WKUP	WKUP	WKUP	WKUP	
System Bus	26	A0	A0/PH0	A0/NBS0	A0/NBS0	A0/NBS0	A0/NBS0
	35	A1	A1/PH1	A1/NBS2/NWR2	A1/NBS2/NWR2	A1/NBS2/DQM/NWR2	A1
	33	A2	A2/PH2	A2	A2	A2	A2
	31	A3	A3/PH3	A3	A3	A3	A3
	28	A4	A4/PH4	A4	A4	A4	A4
	109	A5	A5/PH5	A5	A5	A5	A5
	111	A6	A6/PH6	A6	A6	A6	A6
	113	A7	A7/PH7	A7	A7	A7	A7
	10	A8	A8/PG0	A8	A8	A8	A8
	12	A9	A9/PG1	A9	A9	A9	A9
	18	A10	A10/PG2	A10	A10	A10	A10
	14	A11	A11/PG3	A11	A11	A11	A11
	37	A12	A12/PG4	A12	A12	A12	A12
	5	A13	A13/PG5	A13	A13	A13	A13
	11	A14	A14/PG6	A14	A14	A14	A14
	9	A15	A15/PG7	A15	A15	A15	A15/SCK3
	7	A16	A16/PF0	A16	A16	A16/BA0	A16/CTS3
	13	A17	A17/PF1	A17	A17	A17/BA1	A17/RTS3
	97	A18	A18/PF2	A18	A18	A18/BA2	A18/RXD3
	17	A19	A19/PF3	A23/SPI1_NPS2/PC4	A23/SPI1_NPS2/PC4	A19	A19/TXD3
	15	A20	A20/PF4	A24/SPI1_NPS1/PC5	A24/SPI1_NPS1/PC5	A23/D26	A20/SCK2
	104	A21	A21/PF5~/CS4	A25/CTS3/PC10	A25/CTS3/PC10	A24/D27	A21/NANDALE
	29	D0	D16/PB0	D0	D0	D0	D0
	27	D1	D17/PB1	D1	D1	D1	D1
	25	D2	D18/PB2	D2	D2	D2	D2
	22	D3	D19/PB3	D3	D3	D3	D3
	23	D4	D20/PB4	D4	D4	D4	D4
	21	D5	D21/PB5	D5	D5	D5	D5
	19	D6	D22/PB6	D6	D6	D6	D6
	20	D7	D23/PB7	D7	D7	D7	D7
	8	D8	D24/PA0	D8	D8	D8	D8
	24	D9	D25/PA1	D9	D9	D9	D9
	34	D10	D26/PA2	D10	D10	D10	D10
	70	D11	D27/PA3	D11	D11	D11	D11
77	D12	D28/PA4	D12	D12	D12	D12	
81	D13	D29/PA5	D13	D13	D13	D13	
84	D14	D30/PA6	D14	D14	D14	D14	
86	D15	D31/PA7	D15	D15	D15	D15	
MODULE_SPECIFIC							
Vbus	45	MS0	~BKPT~/TMS	PCK1/PB31	PCK1/PB31	A25	AD2
COME RX	46	MS1	~TA~/PE6	DRXD/PB14	DRXD/PB14	DRXD/CANRX0	DRXD
COME TX	47	MS2	DSCLK~/TRST	DTXD/PB15	DTXD/PB15	DTXD/CANTX0	DTXD
COMD TX	48	MS3	DSI/TDI	TXD5/PB12	TXD5/PB12	TXD2/SPI0_NPCS1	AD3
COMD RX	49	MS4	DSO/TDO	RXD5/PB13	RXD5/PB13	RXD2/SPI1_NPCS0	AD4

MMC/SD 4-Bit DA0	50	MS5	NC	MCDA0/PA6	MCDA0/PA6	MCIO_DA0	MC11_DA0
MMC/SD 4-Bit CMD	51	MS6	NC	MCCDA/PA7	MCCDA/PA7	MCIO_CDA	MC11_CDA
MMC/SD 4-Bit CLK	54	MS7	DDATA3/PDD7	MCCK/PA8	MCCK/PA8	MCIO_CK	MC11_CK
MMC/SD 4-Bit DA1	55	MS8	DDATA2/PDD6	MCDA1/PA9	MCDA1/PA9	MCIO_DA1	MC11_DA1
MMC/SD 4-Bit DA2	56	MS9	DDATA1/PDD5	MCDA2/PA10	MCDA2/PA10	MCIO_DA2	MC11_DA2
MMC/SD 4-Bit DA3	57	MS10	DDATA0/PDD4	MCDA3/PA11	MCDA3/PA11	MCIO_DA3	MC11_DA3
USB Device -	60	MS11	TCLK	DDM (USB D)	DDM (USB D)	DHSDM	H/D HS DM
USB Device +	61	MS12	CLKOUT	DDP (USB D)	DDP (USB D)	DHSDP	H/D HS DP
USB Host A+	64	MS13	PST0/PDD0	HDP A (USB H)	HDP A (USB H)	HHS DP B	HHS DP 1
USB Host B+	65	MS14	PST1/PDD1	HDP B (USB H)	HDP B (USB H)	HFSDP C	HHS DP 2
USB Host A-	66	MS15	PST2/PDD2	HDMA (USB H)	HDMA (USB H)	HHS DM B	HHS DM 1
USB Host B-	67	MS16	PST3/PDD3	HDMA (USB H)	HDMA (USB H)	HFSDM C	HHS DM 2
POWER/GND	3	3.3VCC	3.3VCC	3.3VCC	3.3VCC	3.3VCC	3.3VCC
	4	3.3VCC	3.3VCC	3.3VCC	3.3VCC	3.3VCC	3.3VCC
	141	3.3VCC	3.3VCC	3.3VCC	3.3VCC	3.3VCC	3.3VCC
	142	3.3VCC	3.3VCC	3.3VCC	3.3VCC	3.3VCC	3.3VCC
	1	GND	GND	GND	GND	GND	GND
	2	GND	GND	GND	GND	GND	GND
	52	GND	GND	GND	GND	GND	GND
	53	GND	GND	GND	GND	GND	GND
	58	GND	GND	GND	GND	GND	GND
	59	GND	GND	GND	GND	GND	GND
	62	GND	GND	GND	GND	GND	GND
	63	GND	GND	GND	GND	GND	GND
	68	GND	GND	GND	GND	GND	GND
	69	GND	GND	GND	GND	GND	GND
	143	GND	GND	GND	GND	GND	GND
	144	GND	GND	GND	GND	GND	GND
	119	VSTBY	VSTBY	VSTBY (3.3V)	VSTBY (3.3V)	3.3VCC	VSTBY (3.3V)
	118	ALT_VCC	5_VCC	NC	NC	NC	NC
	101	AV_VCC	VDDA/VDDH	NC	PA30/RXD4 *	NC	NC
	99	V_REF	VRH	NC	PA31/TXD4 *	NC	ADVREF
JTAG/GPIO	139	JTAG_TCK	GPTB0/PTB0	JTAG_TCK	JTAG_TCK	JTAG_TCK	JTAG_TCK/SWCLK
	137	JTAG_TDI	GPTB1/PTB1	JTAG_TDI	JTAG_TDI	JTAG_TDI	JTAG_TDI
	138	JTAG_TDO	GPTB2/PTB2	JTAG_TDO	JTAG_TDO	JTAG_TDO	JTAG_TDO
	140	JTAG_TMS	GPTB3/PTB3	JTAG_TMS	JTAG_TMS	JTAG_TMS	JTAG_TMS/SWDIO
	112	JTAG_TRST	NC	JTAG_NTRST	JTAG_NTRST	JTAG_NTRST	JTAG_NTRST
ONE WIRE/I2C	116	LOCAL1W/SCL	SIZ0/PE2/SYN CB	NC	PA24/TWCK	TWCK1	TWCK0/UTXD1
	88	SDA	ETH_LED0	ETH_LED0	PA23/TWD	TWD1	TWD0/URXD1
ETH/MAGNETICS	89	LED_LINK/CFG_1	ETH_LED1	ETH_LED1	ETH_LED1	ETH_LED1	ETH_LED1
	90	LED_RX/CFG_2	ETH_LED2	ETH_LED2	ETH_LED2	ETH_LED2	ETH_LED2
	94	Ethernet_Rx-	Ethernet Rx-	Ethernet Rx-	Ethernet Rx-	Ethernet Rx-	Ethernet Rx-
	92	Ethernet_Rx+	Ethernet Rx+	Ethernet Rx+	Ethernet Rx+	Ethernet Rx+	Ethernet Rx+
	93	Ethernet_Tx-	Ethernet Tx-	Ethernet Tx-	Ethernet Tx-	Ethernet Tx-	Ethernet Tx-
	91	Ethernet_Tx+	Ethernet Tx+	Ethernet Tx+	Ethernet Tx+	Ethernet Tx+	Ethernet Tx+
SPI	122	SPI_MI	QSPI_DIN/PQS1	SPI0_MI/PA0/MCDB0	PA0/SPI0_MI/MCDB0	SPI0_MISO	SPI0_MISO
	121	SPI_MO	QSPI_DOUT/PQS0	SPI0_MO/PA1/MCDB	PA1/SPI0_MO/MCDB	SPI0_MOSI	SPI0_MOSI
	120	SPI_SCK	QSPI_CLK/PQS2	SPI0_SCK/PA2	PA2/SPI0_SCK	SPI0_SPCK	SPI0_SPCK
	123	SPI_CS0	QSPI_CS0/PQS3	SPI0_CS0/PA3/MCDB3	PA3/SPI0_CS0/MCDB3	SPI0_NPCS3	SPI0_NCS1/CANRX0/SCK0
	124	SPI_CS1	QSPI_CS1/PQS4	PA4/RTS2/MCDB2	PA4/RTS2/MCDB2	TWD2	SPI0_NCS2/CANTX0/CTS0
	110	SPI_CS2	QSPI_CS2/PQS5	PA5/CTS2/MCDB1	PA5/CTS2/MCDB1	TWCK2	SPI0_NCS3/RTS0
SERIAL PORTS	71	COMA_RXD	SDA/PAS1/URXD2	RXD3/PB11	RXD3/PB11	URXD0	RXD0
	73	COMA_TXD	SCL/PAS0/UTXD2	TXD3/PB10	TXD3/PB10	UTXD0	TXD0
	38	COMB_RXD	URXD1/PUA3	RXD1/PB7	RXD1/PB7	RXD0	RXD2
	36	COMB_TXD	UTXD1/PUA2	TXD1/PB6	TXD1/PB6	TXD0	TXD2

	82	COMB_RTS/GPIO	DTOUT1/PTD2/~URTS1-C	RTS1/PB28	RTS1/PB28	RTS0	RTS2
	78	COMB_CTS/GPIO	DTOUT0/PTD0/~UCTS1-C	CTS1/PB29	CTS1/PB29	CTS0	CTS2
	103	COMC_RXD_	URXD0/PUA1	RXD0/PB5	RXD0/PB5	RXD3	RXD1
	102	COMC_TXD	UTXD0/PUA0	TXD0/PB4	TXD0/PB4	TXD3	TXD1
	107	COMC_DSR/GPIO	DTIN0/PTD1/~UCTS1-0	DSR0/PB22	DSR0/PB22	RTS3	RTS1
	106	COMC_DTR/GPIO	DTIN1/PTD3/~URTS1-0	DTR0/PB24	DTR0/PB24	CTS3	CTS1
	76	COMC_RI/GPIO	DTIN2/PTC1/~UCTS1-0	RI0/PB25	RI0/PB25	SCK3	DSR1/PWMH0
	30	COMC_DCD/GPIO	DTIN3/PTC3/~URTS1-0	DCD0/PB23	DCD0/PB23 (Output only)	SCK2	DTR1/PWMH2
	39	COMC_RTS/GPIO	DTOUT3/PTC2/~URTS1-C	RTS0/PB26	RTS0/PB26	AD4	RI1/PWMH3
	79	COMC_CTS/GPIO	DTOUT2/PTC0/~UCTS1-C	CTS0/PB27	CTS0/PB27	SCK0	DCD1/PWMH1
GPIO	75	IRQA/GPIO	~IRQ1~/PNQ1	IRQ0/NCS7/PC12	IRQ0/NCS7/PC12	RTS2	FIQ/PWMF1
	32	IRQB/GPIO	~IRQ3~/PNQ3	IRQ1/PC15	IRQ1/PC15	CTS2	IRQ/PWML1
	40	IRQC/GPIO0	~IRQ4~/PNQ4	NC	NC	TIOB3	TIOA1
SoM-150 SD_Pres	42	IRQD/GPIO1	~IRQ5~/PNQ5	FIQ/PC13/NCS6	PA29/SCK1	TCLK3	TIOB1
Audio SCLK	87	IRQE/GPIO2	~IRQ6~/PNQ6	TK0/TCLK3/PB16	TK0/TCLK3/PB16	TCLK0/TK	TK1
Audio LRCK/TF	80	IRQF/GPIO3	~IRQ7~/PNQ7	TF0/TCLK4/PB17	TF0/TCLK4/PB17	TCLK1/TF	TF1
Audio SDIN	125	GPIO4	GPTA0/PTA0	TD0/TIOB4/PB18	TD0/TIOB4/PB18	TCLK2/TD	TD1
Audio SDOUT	126	GPIO5	GPTA1/PTA1	RD0/TIOB5/PB19	RD0/TIOB5/PB19	TIOB0/RD	RD1
SoM Status LED	127	GPIO6	GPTA2/PTA2	RK0/PB20	RK0/PB20	TIOB1/RK	RK1
Audio RF	128	GPIO7	GPTA3/PTA3	RF0/PB21	RF0/PB21	TIOB2/RF	RF1
	129	GPIO8	AN0/PQB0/ANW	AN0/PC0	AN0/PC0	AD0/PWM0	AD0
	130	GPIO9	AN1/PQB1/ANX	AN1/PC1	AN1/PC1	AD1/PWM1	AD1
	131	GPIO10	AN2/PQB2/ANY	AN2/PC2	AN2/PC2	AD2/PWM2	PWMH2
	132	GPIO11	AN3/PQB3/ANZ	AN3/SPI1-CS3/PC3	AN3/SPI1-CS3/PC3	AD3/PWM3	PWMH3
	133	GPIO12	AN52/PQA0/MA0	SPI1-MI/TIOA3/PB0	SPI1-MI/TIOA3/PB0	SPI1_MISO/TIOA0	SPI1_MISO
	134	GPIO13	AN53/PQA1/MA1	SPI1-MO/TIOB3/PB1	SPI1-MO/TIOB3/PB1	SPI1_MOSI/TIOA1	SPI1_MOSI
	135	GPIO14	AN55/PQA3/ETRIG1	SPI1-SPCK/TIOA4/PB2	SPI1-SPCK/TIOA4/PB2	SPI1_SPCK/TIOA2	SPI1_SPCK
	136	GPIO15	AN56/PQA4/ETRIG2	SPI1-CS0/TIOA5/PB3	SPI1-CS0/TIOA5/PB3	SPI1_NPCS2/TWCK0	SPI1_NPCS2/TWCK1
Audio MCLK	105	~LDAC~/~GPIO	SIZ1/PE3/SYNCA	PCK0/PB30	PCK0/PB30	SPI1_NPCS3/TWD0	SPI1_NPCS1/TWD1
	114	8MHz	8MHz	TIOB2/PC6	TIOB2/PC6	TIOA3	PCK0/AD10
	115	200KHz	200KHz	TIOB1/PC7	TIOB1/PC7	TIOA4	PCK1/AD11
	117	14.3MHz	14.3MHz	TIOB0/NCS5/PC9	PA26/TIOA0	TIOA5	PCK2
BOOT OPTIONS	41	BOOT_OPTION1	JTAG_EN	BMS	BMS	BMS	BMS
	74	BOOT_OPTION2	GPTA0/PTA0	Flash Disable	Flash Disable	Flash Disable	Flash Disable
CAN	96	CANTX	CANTX/PAS2/UTXD2	TXD2/PB8	TXD2/PB8	CANTX1/TXD1	CANTX1
	95	CANRX	CANRX/PAS3/URXD2	RXD2/PB9	RXD2/PB9	CANRX1/RXD1	CANRX1