Atmel AP7000 Pinout

by Jesper Hansen - May 2006

Ball	Signal	Ball	Signal
	VDDIO		PX48/RAS0
A2	PE15/DATA31/LCD_D18	E2	PX50/SDWE0
А3	PE13/DATA29/LCD_D16	E3	PX49/CAS0
A4	PE11/DATA27/LCD_D11	E4	PX47/SDCKE0
A5	_		PE05/DATA21/LCD_D2
A6	PE02/DATA18/MODE0		PE01/DATA17/DVAL0
A7	AGNDPLL		XOUT32
	OSCEN_N		PC28/LCD_D2/MACB1-TXD3
	PC23/LCD_DVAL0/MACB1-CRS0 PA06/TWI SDA0/USART0 RTS0		VDDIO GND
	PB21/DAC D0/AC97 SYNC0		PB19/SM_GCLK2/USART3_CLK0
	PB16/SCC2 TX FSYNC0/USART3 RTS0		PB00/ISI_D0/SPI1_MISO0
	PB13/SCC2_TXD0/ISI_D10		PX46/SDCK0
	PB11/PSIF_CLOCK1/ISI_D8		PB01/ISI_D1/SPI1_MOSI0
A15	GND	E15	VDDIO
A16	VDDIO	E16	PB02/ISI_D2/SPI1_NPCS0
B1	GND		PX32/ADDR16
	PE16/ADDR23/LCD_D19		PX00/DATA00
	PE12/DATA28/LCD_D12		PX33/ADDR17
	PE09/DATA20/LCD_D9		VDDIO
	PE04/DATA20/LCD_D1 PLL0	_	PX51/SDA100 AVDDPLL
_	AVDDOSC		XIN0
	PC30/LCD_D4/MACB1-RXD3		PC27/LCD_D1/MACB1-TXD2
B9	_		PC21/LCD_PCLK0
	PC19/LCD_CC0/MACB1-COL0		VDDCORE
B11	PB23/DAC_DATAN0/AC97_SDI0	F11	GND
B12	PB18/SCC2_RX_CLK0/USART3_RXD0	F12	PX44/NWE10
	PB14/SCC2_RXD0/ISI_D11		PX42/NRD0
	PB10/ISI_PCLK0/MCI_D7		PX43/NWE00
	PC17/MACB0-MDIO0		PX40/NCS1
	PC16/MACB0-MDC0		PX45/NWE30
	PD01/LCD_D7 PD00/LCD_D6		PX04/DATA04 VDDCORE
	PE14/DATA30/LCD_D17		PX05/DATA05
	PE10/DATA26/LCD_D10		PX03/DATA03
	PE06/DATA22/LCD_D3		PX02/DATA02
C6	PE00/DATA16/CC0	G6	PX01/DATA01
C7	PLL1	G7	XOUT0
	PC31/LCD_D5	G8	PC26/LCD_D0/MACB1-TX_ER0
	PC24/LCD_MODE0/MACB1-RX_CLK0		PC20/LCD_HSYNC0
	PA07/TWI_SCL0/USART0_CTS0		PC15/MACB0-RX_DV0
	PB22/DAC_DATAN1/AC97_SCLK0		PC14/MACB0-RX_CLK0
	PB17/SCC2_RX_FSYNC0/USART3_TXD0 PB12/PSIF_DATA1/ISI_D9		PC10/MACB0-RXD1 PC11/MACB0-RXD2
	PB09/ISI_VSYNC0/MCI_D6		PC13/MACB0-RX_ER0
	PB07/ISI_D7/MCI_D4		PC12/MACB0-RXD3
	PB08/ISI_HSYNC0/MCI_D5		VDDCORE
	PE17/ADDR24/LCD_D20		PD06/LCD_D12/MACB1-RXD1
D2	PE18/ADDR25/LCD_D21	H2	VDDIO
	PD02/LCD_D8/MACB1-MDIO0		PD07/LCD_D13
	PE08/DATA24/LCD_D8		PD05/LCD_D11/MACB1-RX_ER0
D5	_		PD04/LCD_D10/MACB1-RX_DV0
	GND AGNDOSC		PD03/LCD_D9/MACB1-MDC0
D7 D8			GND XIN32
	PC29/LCD_D3/MACB1-RXD2 PC22/LCD_VSYNC0		PC09/MACB0-RXD0
	PC18/MACB0-SPEED0		PC05/MACB0-TXD2/DMARQ2
	PB20/DAC_D1/AC97_SDO0		PC06/MACB0-TXD3/DMARQ3
	PB15/SCC2_TXCLK0/USART3_CTS0		PE26/SDCS0
	PB03/ISI_D3/SPI1_NPCS1	H13	VDDIO
	PB05/ISI_D5/SPI1_SCK0	H14	PC07/MACB0-TX_EN0
	PB04/ISI_D4/SPI1_NPCS2		PX39/NCS0
D16	PB06/ISI_D6/MCI_CMD0	H16	PC08/MACB0-TX_CLK0

Rall	Signal	Rall	Signal
J1	TRST N		PA18/USART1_TXD0/TC0_CLK20
J2	TMS		PA16/USART1_CLK0/TC0_B10
J3	TDI		PA17/USART1_RXD0/TC0_B20
J4	TCK	N4	PA15/MCI_D3/TC0_B00
J5	TDO	N5	PD14/LCD_D20/MACB1-TXD1
J6	PD09/LCD_D15	N6	GND
J7	PD08/LCD_D14		FSDM
J8	_		VBG
J9	PB27/EXTINT2/USART2_TXD0		PA30/SM_GCLK0/TC1_CLK10
	PX27/ADDR11		PX53/NANDWE0
	PX28/ADDR12 PX29/ADDR13		PE22/NCS5 PX06/DATA06
	PX30/ADDR14		PX11/DATA11
	VDDCORE		PX15/DATA15
	GND		PX17/ADDR01
	PX31/ADDR15		PX16/ADDR00
K1	PA05/SPI0_NPCS2/SCC1_RXD0	P1	PA20/USART1_CTS0/SPI0_NPCS3
K2	PA01/SPI0_MOSI0/SCC1_TX_FSYNC0	P2	PA19/USART1_RTS0/TC0_CLK10
	PA02/SPI0_SCK0/SCC1_TX_CLK0		PA21/SCC0_RX_FSYNC0/PWM2
K4	PA00/SPI0_MISO0/SCC1_RX_FSYNC0		PD11/LCD_D17/MACB1-TX_EN0
	RESET_N		PD16/LCD_D22
K6			XOUT1
K7			GND BASE/SCCO TYDO/TC1 BOO
K8 K9	HSDP PA27/SPI1_NPCS3/TC1_CLK00		PA25/SCC0_TXD0/TC1_B00 WAKE N
	GND	_	PX41/NCS3
	PX22/ADDR06		PE21/NCS4
K12	PX23/ADDR07		PX09/DATA09
	PX24/ADDR08	P13	PB30/SM_GCLK4/USART2_RTS0
K14	PX26/ADDR10	P14	PC02/MACB0-TX_ER0
K15	VDDIO	P15	PX13/DATA13
	PX25/ADDR09		PX14/DATA14
	PA09/PSIF_DATA0/USART0_TXD0		PA22/SCC0_RX_CLK0/PWM3
	PB25/EXTINTO/DMAC_DMARQ1		PD10/LCD_D16/MACB1-RXD0
L3 L4	VDDIO PA08/PSIF_CLOCK0/USART0_RXD0		PA23/SCC0_TX_CLK0/TC1_A00 PD13/LCD_D19/MACB1-TXD0
L5	GND		PD17/LCD_D23
L6	PB24/NMI_N/DMAC_DMARQ0		AVDDUSB
L7			HSDM
L8	VDDCORE	R8	PA26/SCC0_RXD0/TC1_B10
L9	PA28/PWM0/TC1_A20	R9	PA31/SM_GCLK1/TC1_CLK20
	VDDIO	R10	PX52/NANDOE0
	PE24/NWAIT0		PE23/CFRNW0
	PX38/ADDR22		PX07/DATA07
	PX18/ADDR02		PB29/SM_GCLK3/USART2_CTS0
	PX20/ADDR04 PX21/ADDR05		PC00/MACB0-COL0 PC04/MACB0-TXD1
	PX19/ADDR03		GND
M1			VDDIO
	PA11/MCI_CMD0/TC0_CLK00		GND
	PA13/MCI_D1/TC0_A10	Т3	PA24/SCC0_TX_FSYNC0/TC1_A10
M4	PA10/MCI_CLK0/USART0_CLK0	T4	PD12/LCD_D18/MACB1-TX_CLK0
	PA12/MCI_D0/TC0_A00		PD15/LCD_D21/MACB1-SPEED0
	VDDIO		XIN1
	VDDIO		FSDP
	GND PA 20/DWM4/TC4 P20		VDDIO
	PA29/PWM1/TC1_B20 PR28/EYTINT3/USART2_CLK0		PB26/EXTINT1/USART2_RXD0 PE25/NCS2
	PB28/EXTINT3/USART2_CLK0 PE20/CFCE20		PE25/NC52 PE19/CFCE10
	PX08/DATA08		PX10/DATA10
	PX34/ADDR18		PX12/DATA12
	PX36/ADDR20		PC01/MACB0-CRS0
	PX37/ADDR21		PC03/MACB0-TXD0
M16	PX35/ADDR19	T16	VDDIO

Ball	Signal	Ball	Signal
D7	-		PB06/ISI_D6/MCI_CMD0
A7	AGNDPLL		PB07/ISI_D7/MCI_D4
L7	AGNDUSB	C16	PB08/ISI_HSYNC0/MCI_D5
B7	AVDDOSC	C14	PB09/ISI_VSYNC0/MCI_D6
F6	AVDDPLL		PB10/ISI_PCLK0/MCI_D7
	AVDDUSB		PB11/PSIF_CLOCK1/ISI_D8
J8	EVTI_N		PB12/PSIF_DATA1/ISI_D9
	FSDM		PB13/SCC2_TXD0/ISI_D10
T7	FSDP		PB14/SCC2_RXD0/ISI_D11
B1	GND GND		PB15/SCC2_TXCLK0/USART3_CTS0 PB16/SCC2_TX_FSYNC0/USART3_RTS0
	GND		PB17/SCC2_TX_F3TNC0/USART3_RT30 PB17/SCC2_RX_FSYNC0/USART3_RT30
	GND		PB18/SCC2_RX_CLK0/USART3_RXD0
	GND		PB19/SM_GCLK2/USART3_CLK0
H7	GND		PB20/DAC_D1/AC97_SDO0
J15	GND	A11	PB21/DAC_D0/AC97_SYNC0
K10	GND	C11	PB22/DAC_DATAN1/AC97_SCLK0
L5	GND		PB23/DAC_DATAN0/AC97_SDI0
	GND		PB24/NMI_N/DMAC_DMARQ0
	GND		PB25/EXTINTO/DMAC_DMARQ1
	GND		PB26/EXTINT1/USART2_RXD0
	GND		PB27/EXTINT2/USART2_TXD0
T2 R7	GND HSDM		PB28/EXTINT3/USART2_CLK0 PB29/SM GCLK3/USART2 CTS0
K8	HSDP		PB30/SM_GCLK4/USART2_CTS0
A8	OSCEN_N		PC00/MACB0-COL0
K4	PA00/SPI0 MISO0/SCC1 RX FSYNC0		PC01/MACB0-CRS0
K2	PA01/SPI0 MOSI0/SCC1 TX FSYNC0		PC02/MACB0-TX ER0
K3	PA02/SPI0_SCK0/SCC1_TX_CLK0	T15	PC03/MACB0-TXD0
K6	PA03/SPI0_NPCS0/SCC1_RX_CLK0	R15	PC04/MACB0-TXD1
K7	PA04/SPI0_NPCS1/SCC1_TXD0	H10	PC05/MACB0-TXD2/DMARQ2
K1	PA05/SPI0_NPCS2/SCC1_RXD0		PC06/MACB0-TXD3/DMARQ3
	PA06/TWI_SDA0/USART0_RTS0		PC07/MACB0-TX_EN0
	PA07/TWI_SCL0/USART0_CTS0		PC08/MACB0-TX_CLK0
L4	PA08/PSIF_CLOCKO/USARTO_RXD0		PC09/MACB0-RXD0
L1	PA09/PSIF_DATA0/USART0_TXD0 PA10/MCI_CLK0/USART0_CLK0		PC10/MACB0-RXD1 PC11/MACB0-RXD2
M2			PC12/MACB0-RXD3
M5	PA12/MCI_D0/TC0_A00		PC13/MACB0-RX_ER0
	PA13/MCI D1/TC0 A10		PC14/MACB0-RX CLK0
M1	PA14/MCI_D2/TC0_A20	G10	PC15/MACB0-RX_DV0
N4	PA15/MCI_D3/TC0_B00	B16	PC16/MACB0-MDC0
N2	PA16/USART1_CLK0/TC0_B10		PC17/MACB0-MDIO0
N3		-	PC18/MACB0-SPEED0
N1	PA18/USART1_TXD0/TC0_CLK20		PC19/LCD_CC0/MACB1-COL0
P2	PA19/USART1_RTS0/TC0_CLK10		PC20/LCD_HSYNC0
P1 P3	PA20/USART1_CTS0/SPI0_NPCS3		PC21/LCD_PCLK0
R1	PA21/SCC0_RX_FSYNC0/PWM2 PA22/SCC0_RX_CLK0/PWM3		PC22/LCD_VSYNC0 PC23/LCD_DVAL0/MACB1-CRS0
R3	PA23/SCC0_RX_CLK0/PWM3 PA23/SCC0_TX_CLK0/TC1_A00		PC23/LCD_MODE0/MACB1-CR50 PC24/LCD_MODE0/MACB1-RX_CLK0
T3	PA24/SCC0 TX FSYNC0/TC1 A10		PC25/LCD_PWR0
P8	PA25/SCC0_TXD0/TC1_B00		PC26/LCD_D0/MACB1-TX_ER0
R8	PA26/SCC0_RXD0/TC1_B10		PC27/LCD_D1/MACB1-TXD2
K9	PA27/SPI1_NPCS3/TC1_CLK00		PC28/LCD_D2/MACB1-TXD3
L9	PA28/PWM0/TC1_A20	D8	PC29/LCD_D3/MACB1-RXD2
М9	PA29/PWM1/TC1_B20		PC30/LCD_D4/MACB1-RXD3
N9	PA30/SM_GCLK0/TC1_CLK10		PC31/LCD_D5
R9	PA31/SM_GCLK1/TC1_CLK20		PD00/LCD_D6
	PB00/ISI_D0/SPI1_MISO0		PD01/LCD_D7
	PB01/ISI_D1/SPI1_MOSI0		PD02/LCD_D8/MACB1-MDIO0
	PB02/ISI_D2/SPI1_NPCS0		PD03/LCD_D9/MACB1-MDC0
	PB03/ISI_D3/SPI1_NPCS1 PB04/ISI_D4/SPI1_NPCS2		PD04/LCD_D10/MACB1-RX_DV0 PD05/LCD_D11/MACB1-RX_ER0
	PB05/ISI_D5/SPI1_SCK0	H1	PD06/LCD_D12/MACB1-RXD1
J 14	1 200/101_20/01 11_0010		. 500, 205_5 (2) WINOS (-10/15)

Pell	Signal	Dell.	Signal
	Signal PD07/LCD_D13		Signal PX24/ADDR08
J7	PD08/LCD_D14		PX25/ADDR09
J6	PD09/LCD_D15		PX26/ADDR10
	PD10/LCD_D16/MACB1-RXD0		PX27/ADDR11
P4	PD11/LCD_D17/MACB1-TX_EN0		PX28/ADDR12
T4	PD12/LCD_D18/MACB1-TX_CLK0		PX29/ADDR13
R4	PD13/LCD_D19/MACB1-TXD0	J13	PX30/ADDR14
N5	PD14/LCD_D20/MACB1-TXD1	J16	PX31/ADDR15
T5	PD15/LCD_D21/MACB1-SPEED0	F1	PX32/ADDR16
P5	PD16/LCD_D22	F3	PX33/ADDR17
R5	PD17/LCD_D23	M13	PX34/ADDR18
C6	PE00/DATA16/CC0		PX35/ADDR19
	PE01/DATA17/DVAL0		PX36/ADDR20
A6	PE02/DATA18/MODE0		PX37/ADDR21
	PE03/DATA19/LCD_D0		PX38/ADDR22
	PE04/DATA20/LCD_D1		PX39/NCS0
E5	_		PX40/NCS1
	PE06/DATA22/LCD_D3		PX41/NCS3 PX42/NRD0
D4	PE07/DATA23/LCD_D4 PE08/DATA24/LCD_D8		PX43/NWE00
	PE09/DATA25/LCD_D9		PX44/NWE10
	PE10/DATA26/LCD_D10		PX45/NWE30
	PE11/DATA27/LCD_D11		PX46/SDCK0
	PE12/DATA28/LCD_D12	_	PX47/SDCKE0
	PE13/DATA29/LCD_D16		PX48/RAS0
	PE14/DATA30/LCD_D17		PX49/CAS0
A2	PE15/DATA31/LCD_D18	E2	PX50/SDWE0
B2	PE16/ADDR23/LCD_D19	F5	PX51/SDA100
D1	PE17/ADDR24/LCD_D20	R10	PX52/NANDOE0
D2	PE18/ADDR25/LCD_D21	N10	PX53/NANDWE0
T11	PE19/CFCE10	K5	RESET_N
	PE20/CFCE20		TCK
	PE21/NCS4		TDI
	PE22/NCS5		TDO
	PE23/CFRNW0		TMS
	PE24/NWAITO		TRST_N
	PE25/NCS2 PE26/SDCS0		WAKE_N VBG
	PLL0		VDDCORE
	PLL1		VDDCORE
	PX00/DATA00		VDDCORE
	PX01/DATA01		VDDCORE
	PX02/DATA02	_	VDDCORE
	PX03/DATA03		VDDIO
G1			VDDIO
G3	PX05/DATA05	E9	VDDIO
	PX06/DATA06		VDDIO
	PX07/DATA07		VDDIO
	PX08/DATA08		VDDIO
	PX09/DATA09		VDDIO
	PX10/DATA10		VDDIO
	PX11/DATA11		VDDIO
	PX12/DATA12		VDDIO
	PX13/DATA13 PX14/DATA14		VDDIO VDDIO
	PX14/DATA14 PX15/DATA15		VDDIO
	PX16/ADDR00		VDDIO
	PX17/ADDR01		VDDIO
	PX18/ADDR02	F7	XIN0
	PX19/ADDR03		XIN1
	PX20/ADDR04		XIN32
	PX21/ADDR05		XOUT0
K11	PX22/ADDR06		XOUT1
K12	PX23/ADDR07	E7	XOUT32