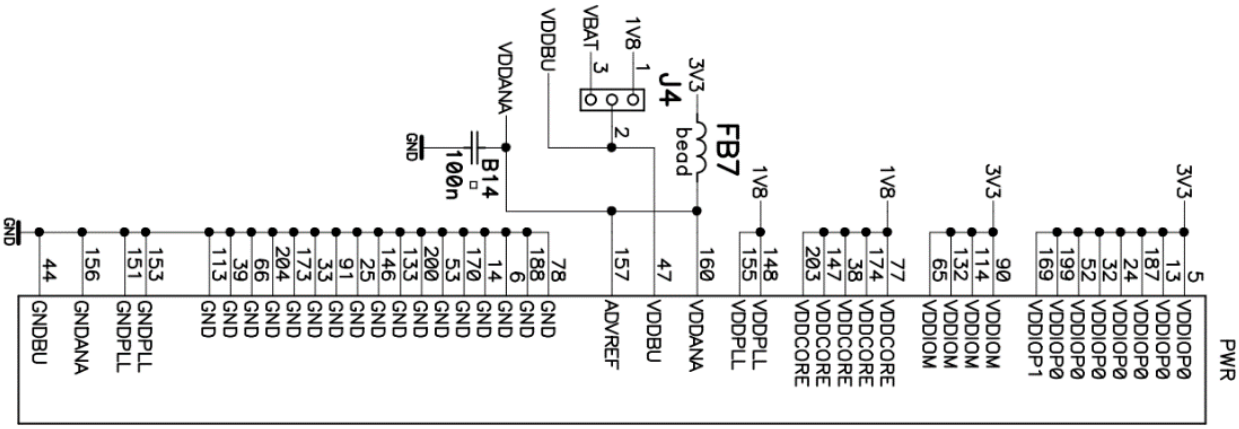
PWR
GNDBU
GNDANA
GNDPLL
GNDPLL
ADVREF
VDDBU
VDDANA
VDDPLL
VDDPLL
VDDCORE
VDDCORE
VDDCORE
VDDCORE
VDDIOM
VDDIOM
VDDIOM
VDDIOP1
VDDIOP0
VDDIOP0
VDDIOP0
VDDIOP0
VDDIOP0
VDDIOP0
VDDIOP0
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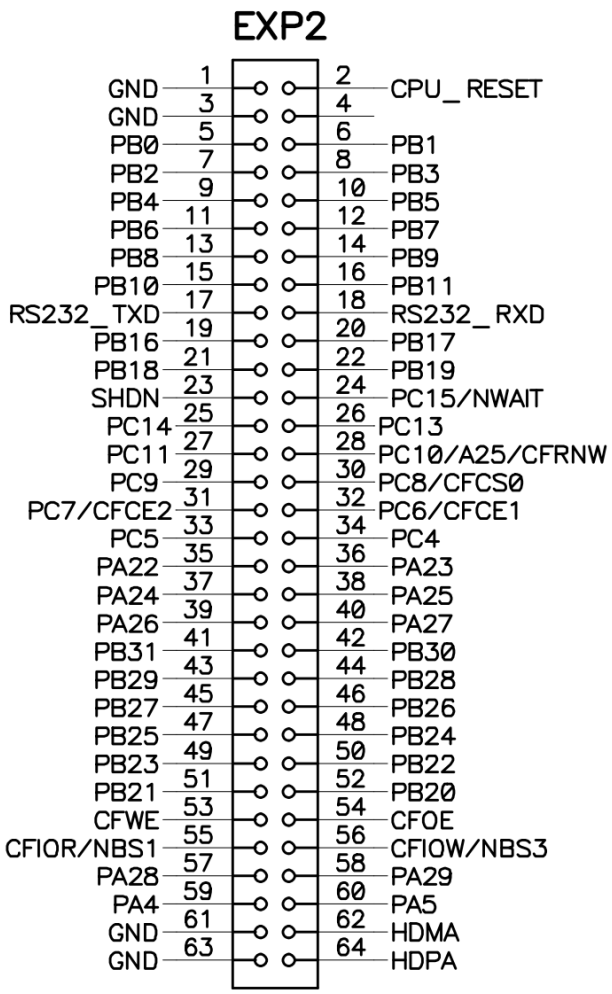
3V3
1V8
VDDBU
VBAT
J4
FB7
bead
B14
100n
VDDANA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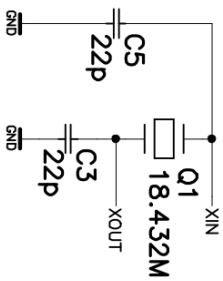
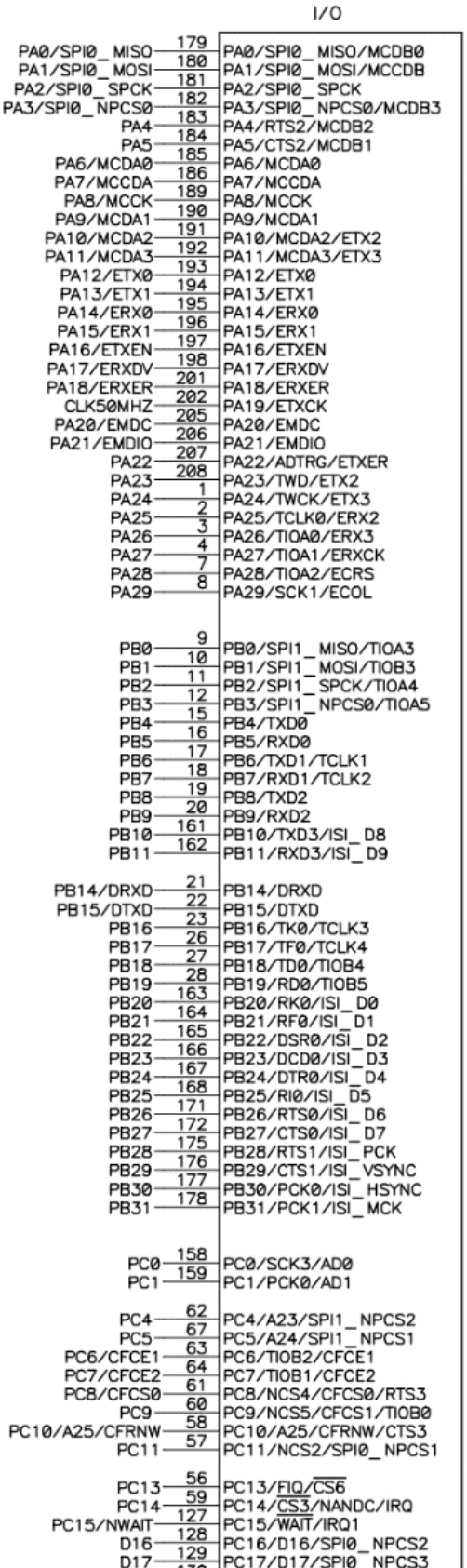
GND
GND
PB0
PB2
PB4
PB6
PB8
PB10
RS232_TXD
PB16
PB18
SHDN
PC14
PC11
PC9
PC7/CFCE2
PC5
PA22
PA24
PA26
PB31
PB29
PB27
PB25
PB23
PB21
CFWE
CFIOR/NBS1
PA28
PA4
GND
GND
CPU_RESET
PB1
PB3
PB5
PB7
PB9
PB11
RS232_RXD
PB17
PB19
PC15/NWAIT
PC13
PC10/A25/CFRNW
PC8/CFCS0
PC6/CFCE1
PC4
PA23
PA25
PA27
PB30
PB28
PB26
PB24
PB22
PB20
CFOE
CFIOW/NBS3
PA29
PA5
HDMA
HDPA


GND
C5
22p
GND
C3
22p
Q1
18.432M
XOUT
XIN


I/O
PA0/SPI0_MISO
PA1/SPI0_MOSI
PA2/SPI0_SPCK
PA3/SPI0_NPCS0
PA4
PA5
PA6/MCDA0
PA7/MCCDA
PA8/MCCK
PA9/MCDA1
PA10/MCDA2
PA11/MCDA3
PA12/ETX0
PA13/ETX1
PA14/ERX0
PA15/ERX1
PA16/ETXEN
PA17/ERXDV
PA18/ERXER
CLK50MHZ
PA20/EMDC
PA21/EMDIO
PA22
PA23
PA24
PA25
PA26
PA27
PA28
PA29
PB0
PB1
PB2
PB3
PB4
PB5
PB6
PB7
PB8
PB9
PB10
PB11
PB14/DRXD
PB15/DTXD
PB16
PB17
PB18
PB19
PB20
PB21
PB22
PB23
PB24
PB25
PB26
PB27
PB28
PB29
PB30
PB31
PC0
PC1
PC4
PC5
PC6/CFCE1
PC7/CFCE2
PC8/CFCS0
PC9
PC10/A25/CFRNW
PC11
PC13
PC14
PC15/NWAIT
D16
D17

41. AT91SAM9260 Electrical Characteristics

41.1 Absolute Maximum Ratings

Table 41-1. Absolute Maximum Ratings*

Operating Temperature (Industrial) ..... -40°C to +85°C
Storage Temperature ..... -60°C to +150°C
Voltage on Input Pins with Respect to Ground .. -0.3V to VDDIO+0.3V(+4V max)
Maximum Operating Voltage (VDDCORE, VDDPLL and VDDBU) 2.0V
Maximum Operating Voltage (VDDIOM and VDDIOP) 4.0V
Total DC Output Current on all I/O lines ..... 350 mA

*I

Table 41-3. Power Consumption for Different Modes(1)

Mode	Conditions	Consumption	Unit
Active	ARM Core clock is 180 MHz. MCK is 90 MHz. All peripheral clocks activated. onto AMP2	130	mA
Idle	Idle state, waiting an interrupt. All peripheral clocks de-activated. onto AMP2	17	mA
Ultra low power	ARM Core clock is 500 Hz. All peripheral clocks de-activated. onto AMP2	600	µA
Backup	Device only V_{DDBU} powered onto AMP1	5	µA

41.2 DC Characteristics

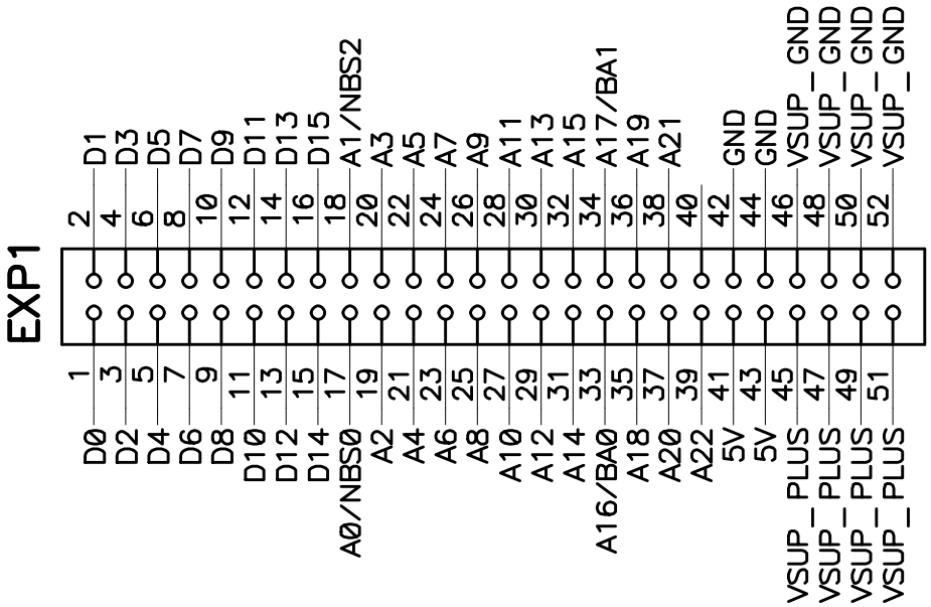
The following characteristics are applicable to the operating temperature range: T_A = -40°C to 85°C, unless otherwise specified.

Table 41-2. DC Characteristics

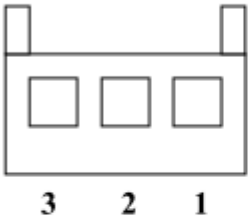
Symbol	Parameter	Conditions	Min	Typ	Max	Units
$V_{VDDCORE}$	DC Supply Core		1.65	1.8	1.95	V
V_{VDDBU}	DC Supply Backup		1.65	1.8	1.95	V
V_{VDDPLL}	DC Supply PLL		1.65	1.8	1.95	V
V_{VDDIOM}	DC Supply Memory I/Os	selectable by software	1.65/3.0	1.8/3.3	1.95/3.6	V
$V_{VDDIOP0}$	DC Supply Peripheral I/Os		3.0	3.3	3.6	V
$V_{VDDIOP1}$	DC Supply Peripheral I/Os		1.65	1.8/2.5/3.3	3.6	V
V_{VDDANA}	DC Supply Analog		3.0	3.3	3.6	V
V_{IL}	Input Low-level Voltage	V_{VDDIO} from 3.0V to 3.6V	-0.3		0.8	V
		V_{VDDIO} from 1.65V to 1.95V	-0.3		0.3 x V_{VDDIO}	V
V_{IH}	Input High-level Voltage	V_{VDDIO} from 3.0V to 3.6V	2.0		V_{VDDIO} +0.3V	V
		V_{VDDIO} from 1.65V to 1.95V	0.7 x V_{VDDIO}		V_{VDDIO} +0.3V	V
V_{OL}	Output Low-level Voltage	I_O Max, V_{VDDIO} from 3.0V to 3.6V			0.4	V
		CMOS (I_O <0.3 mA) V_{VDDIO} from 1.65V to 1.95V			0.1	V
		TTL (I_O Max) V_{VDDIO} from 1.65V to 1.95V			0.4	V
V_{OH}	Output High-level Voltage	I_O Max, V_{VDDIO} from 3.0V to 3.6V	V_{VDDIO} - 0.4			V
		CMOS (I_O <0.3 mA) V_{VDDIO} from 1.65V to 1.95V	V_{VDDIO} - 0.1			V
		TTL (I_O Max) V_{VDDIO} from 1.65V to 1.95V	V_{VDDIO} - 0.4			

Table 41-2. DC Characteristics (Continued)

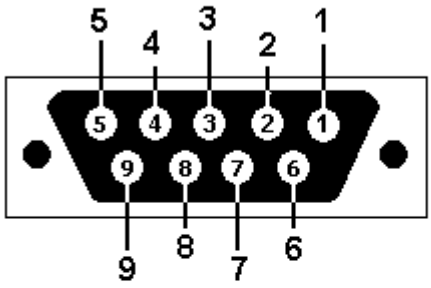
R_{PULLUP}	Pull-up Resistance	PA0-PA31 PB0-PB31 PC0-PC3 NTRST and NRST		67	100	180	kOhm
		PC4 - PC31 V_{VDDIOM} in 1.8V range		240		1000	
		PC4 - PC31 V_{VDDIOM} in 3.3V range		120		350	
I_O	Output Current	PA0-PA31 PB0-PB31 PC0-PC3				16	mA
		PC4 - PC31 in 3.3V range				2	
		PC4 - PC31 in 1.8V range				4	
I_{SC}	Static Current	On $V_{VDDCORE}$ = 1.8V, MCK = 0 Hz, excluding POR	T_A =25°C		500		µA
		All inputs driven TMS, TDI, TCK, NRST = 1	T_A =85°C			5000	
		On V_{VDDBU} = 1.8V, Logic cells consumption, excluding POR	T_A =25°C		2		µA
		All inputs driven WKUP = 0	T_A =85°C			20	



NAČRT POVEZAV ZA RS232 KABEL



CRIMP



DB9 ženski

CRIMP		DB9	
Nožica	Ime signala	Nožica	Ime signala
1	TD	2	RD
2	GND	5	GND
3	RD	3	TD