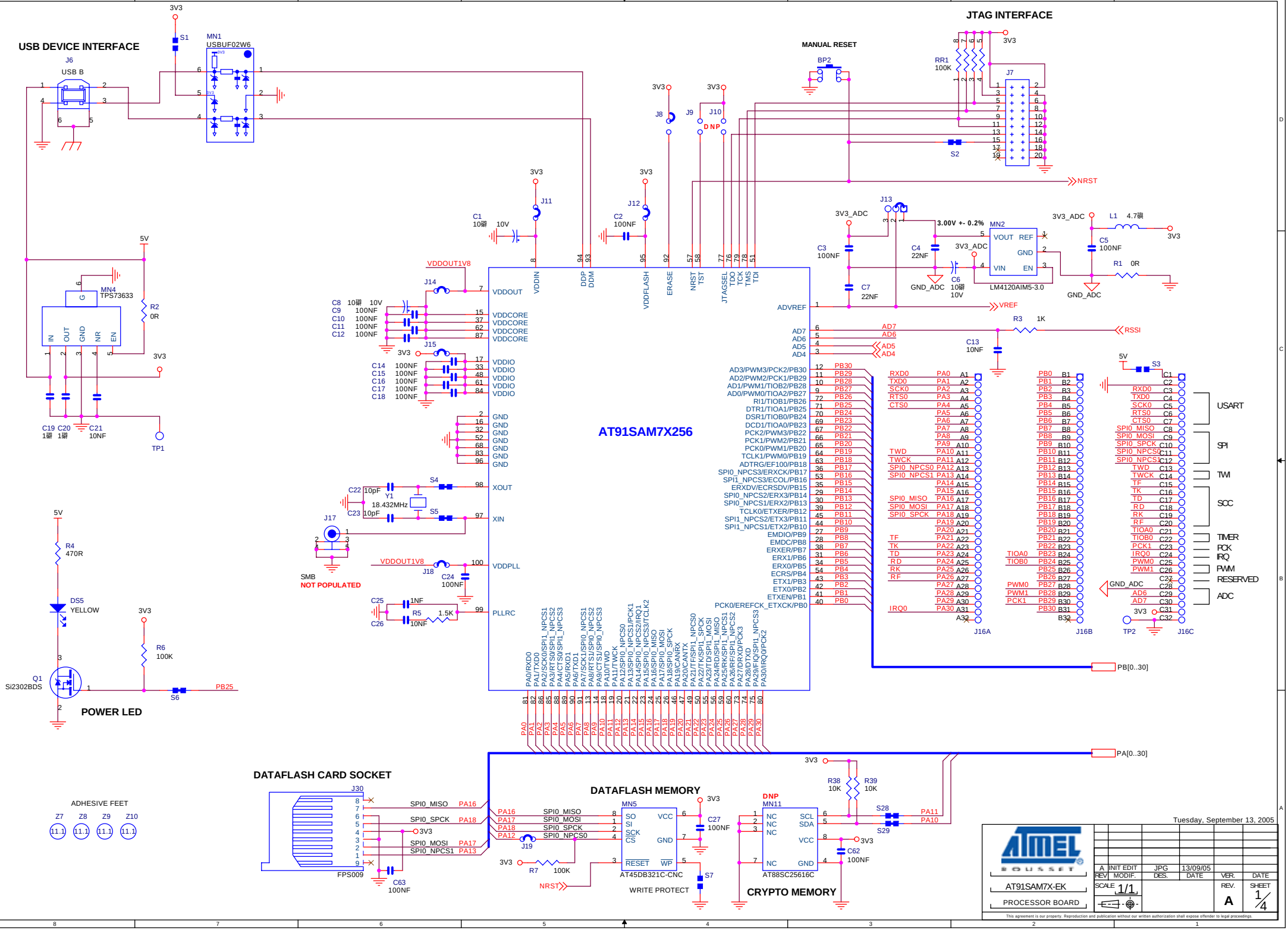
USB DEVICE INTERFACE
J6
USB B
S1
MN1
USBUF02W6
3V3
5V
MN4
TPS73633
IN
OUT
GND
NR
EN
R2
0R
C19 1µF
C20 1µF
C21 10NF
TP1
POWER LED
R4 470R
DS5 YELLOW
R6 100K
Q1 Si2302BDS
S6
PB25
JTAG INTERFACE
MANUAL RESET
BP2
RR1 100K
J7
S2
NRST
J8
J9
J10
DNP
J11
J12
C1 10µF 10V
C2 100NF
VDDOUT1V8
J14
J15
C8 10µF 10V
C9 100NF
C10 100NF
C11 100NF
C12 100NF
C14 100NF
C15 100NF
C16 100NF
C17 100NF
C18 100NF
VDDIN
VDDOUT
VDDCORE
VDDIO
GND
VDDFLASH
ERASE
NRST
TST
JTAGSEL
TDO
TCK
TMS
TDI
DDP
DDM
AT91SAM7X256
ADVREF
J13
3V3_ADC
C3 100NF
C7 22NF
C4 22NF
C6 10µF 10V
3.00V +- 0.2%
MN2
LM4120AIM5-3.0
VOUT
REF
GND
VIN
EN
GND_ADC
L1 4.7µH
C5 100NF
R1 0R
VREF
R3 1K
RSSI
C13 10NF
AD7
AD6
AD5
AD4
S4
S5
Y1
18.432MHz
C22 10pF
C23 10pF
J17
SMB
NOT POPULATED
XOUT
XIN
VDDPLL
PLLRC
J18
C24 100NF
C25 1NF
C26 10NF
R5 1.5K
PB[0..30]
PA[0..30]
J16A
J16B
J16C
TP2
S3
USART
SPI
TWI
SCC
TIMER
PCK
IRQ
PWM
RESERVED
ADC
DATAFLASH CARD SOCKET
J30
FPS009
SPI0_MISO
SPI0_SPCK
SPI0_MOSI
SPI0_NPCS1
C63 100NF
DATAFLASH MEMORY
MN5
AT45DB321C-CNC
WRITE PROTECT
C27 100NF
R7 100K
J19
S7
R38 10K
R39 10K
S28
S29
DNP
MN11
AT88SC25616C
C62 100NF
CRYPTO MEMORY
ADHESIVE FEET
Z7
Z8
Z9
Z10
Tuesday, September 13, 2005
AT91SAM7X-EK
PROCESSOR BOARD
REV. A
SHEET 1/4
SCALE 1/1
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