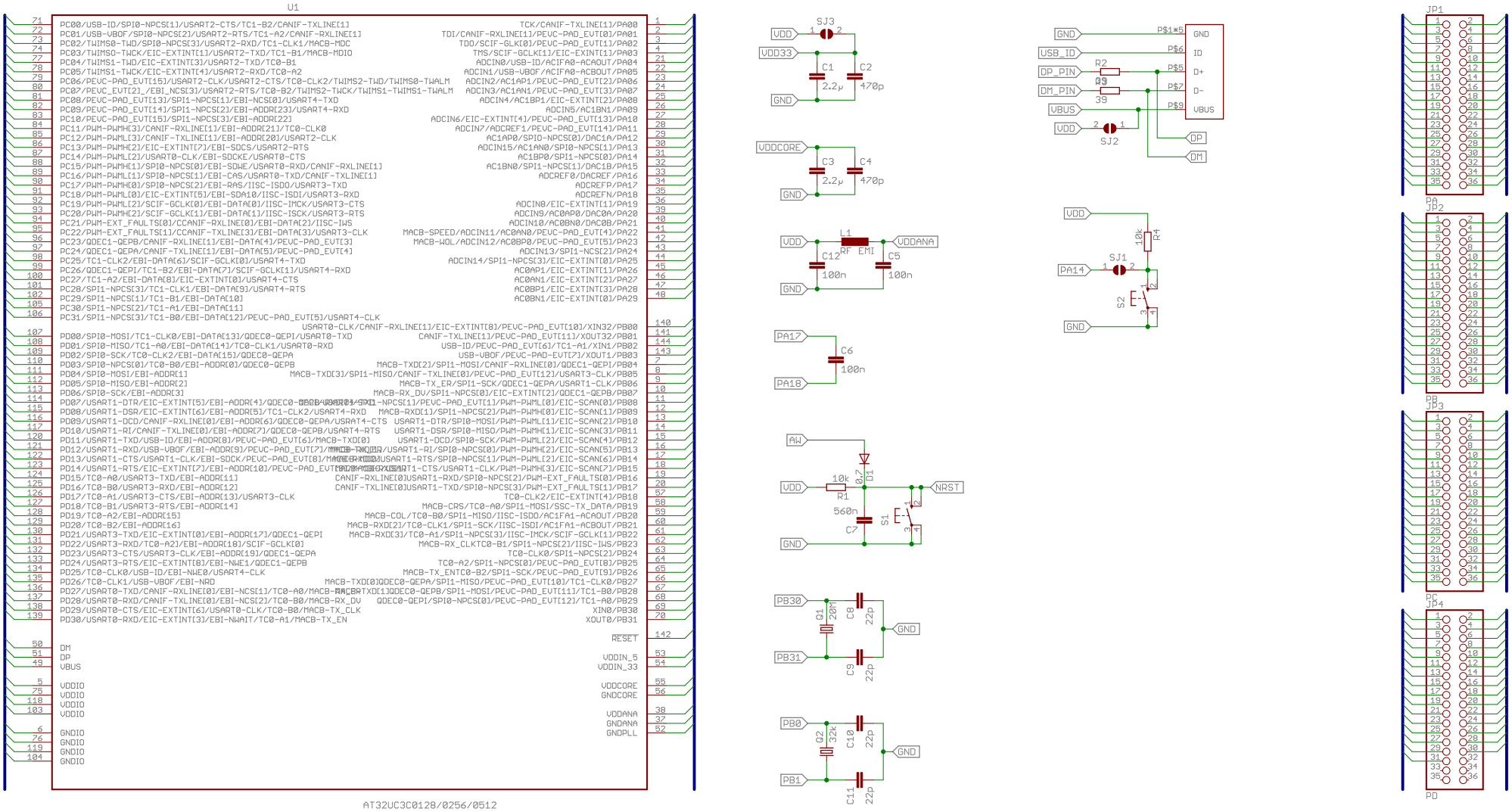
U1
PC00/USB-ID/SPI0-NPCS[1]/USART2-CTS/TC1-B2/CANIF-TXLINE[1]
PC01/USB-VBOF/SPI0-NPCS[2]/USART2-RTS/TC1-A2/CANIF-RXLINE[1]
PC02/TWIMS0-TWD/SPI0-NPCS[3]/USART2-RXD/TC1-CLK1/MACB-MDC
PC03/TWIMS0-TWCK/EIC-EXTINT[1]/USART2-TXD/TC1-B1/MACB-MDIO
PC04/TWIMS1-TWD/EIC-EXTINT[3]/USART2-TXD/TC0-B1
PC05/TWIMS1-TWCK/EIC-EXTINT[4]/USART2-RXD/TC0-A2
PC06/PEVC-PAD_EVT[15]/USART2-CLK/USART2-CTS/TC0-CLK2/TWIMS2-TWD/TWIMS0-TWALM
PC07/PEVC_EVT[2]_/EBI_NCS[3]/USART2-RTS/TC0-B2/TWIMS2-TWCK/TWIMS1-TWIMS1-TWALM
PC08/PEVC-PAD_EVT[13]/SPI1-NPCS[1]/EBI-NCS[0]/USART4-TXD
PC09/PEVC-PAD_EVT[14]/SPI1-NPCS[2]/EBI-ADDR[23]/USART4-RXD
PC10/PEVC-PAD_EVT[15]/SPI1-NPCS[3]/EBI-ADDR[22]
PC11/PWM-PWMH[3]/CANIF-RXLINE[1]/EBI-ADDR[21]/TC0-CLK0
PC12/PWM-PWML[3]/CANIF-TXLINE[1]/EBI-ADDR[20]/USART2-CLK
PC13/PWM-PWMH[2]/EIC-EXTINT[7]/EBI-SDCS/USART2-RTS
PC14/PWM-PWML[2]/USART0-CLK/EBI-SDCKE/USART0-CTS
PC15/PWM-PWMH[1]/SPI0-NPCS[0]/EBI-SDWE/USART0-RXD/CANIF-RXLINE[1]
PC16/PWM-PWML[1]/SPI0-NPCS[1]/EBI-CAS/USART0-TXD/CANIF-TXLINE[1]
PC17/PWM-PWMH[0]/SPI0-NPCS[2]/EBI-RAS/IISC-ISDO/USART3-TXD
PC18/PWM-PWML[0]/EIC-EXTINT[5]/EBI-SDA10/IISC-ISDI/USART3-RXD
PC19/PWM-PWML[2]/SCIF-GCLK[0]/EBI-DATA[0]/IISC-IMCK/USART3-CTS
PC20/PWM-PWMH[2]/SCIF-GCLK[1]/EBI-DATA[1]/IISC-ISCK/USART3-RTS
PC21/PWM-EXT_FAULTS[0]/CCANIF-RXLINE[0]/EBI-DATA[2]/IISC-IWS
PC22/PWM-EXT_FAULTS[1]/CCANIF-TXLINE[3]/EBI-DATA[3]/USART3-CLK
PC23/QDEC1-QEPB/CANIF-RXLINE[1]/EBI-DATA[4]/PEVC-PAD_EVT[3]
PC24/QDEC1-QEPA/CANIF-TXLINE[1]/EBI-DATA[5]/PEVC-PAD_EVT[4]
PC25/TC1-CLK2/EBI-DATA[6]/SCIF-GCLK[0]/USART4-TXD
PC26/QDEC1-QEPI/TC1-B2/EBI-DATA[7]/SCIF-GCLK[1]/USART4-RXD
PC27/TC1-A2/EBI-DATA[8]/EIC-EXTINT[0]/USART4-CTS
PC28/SPI1-NPCS[3]/TC1-CLK1/EBI-DATA[9]/USART4-RTS
PC29/SPI1-NPCS[1]/TC1-B1/EBI-DATA[10]
PC30/SPI1-NPCS[2]/TC1-A1/EBI-DATA[11]
PC31/SPI1-NPCS[3]/TC1-B0/EBI-DATA[12]/PEVC-PAD_EVT[5]/USART4-CLK
PD00/SPI0-MOSI/TC1-CLK0/EBI-DATA[13]/QDEC0-QEPI/USART0-TXD
PD01/SPI0-MISO/TC1-A0/EBI-DATA[14]/TC0-CLK1/USART0-RXD
PD02/SPI0-SCK/TC0-CLK2/EBI-DATA[15]/QDEC0-QEPA
PD03/SPI0-NPCS[0]/TC0-B0/EBI-ADDR[0]/QDEC0-QEPB
PD04/SPI0-MOSI/EBI-ADDR[1]
PD05/SPI0-MISO/EBI-ADDR[2]
PD06/SPI0-SCK/EBI-ADDR[3]
PD07/USART1-DTR/EIC-EXTINT[5]/EBI-ADDR[4]/QDEC0-QEPI/USART1-TXD
PD08/USART1-DSR/EIC-EXTINT[6]/EBI-ADDR[5]/TC1-CLK2/USART4-RXD
PD09/USART1-DCD/CANIF-RXLINE[0]/EBI-ADDR[6]/QDEC0-QEPA/USART4-CTS
PD10/USART1-RI/CANIF-TXLINE[0]/EBI-ADDR[7]/QDEC0-QEPB/USART4-RTS
PD11/USART1-TXD/USB-ID/EBI-ADDR[8]/PEVC-PAD_EVT[6]/MACB-TXD[0]
PD12/USART1-RXD/USB-VBOF/EBI-ADDR[9]/PEVC-PAD_EVT[7]/USART1-RI/SPI0-NPCS[0]/PWM-PWMH[2]/EIC-SCAN[5]/TC1-B0/MACB-TXD[1]
PD13/USART1-CTS/USART1-CLK/EBI-SDCK/PEVC-PAD_EVT[8]/USART1-RTS/SPI0-NPCS[1]/PWM-PWML[2]/EIC-SCAN[6]/TC1-A0/MACB-RXD[0]
PD14/USART1-RTS/EIC-EXTINT[7]/EBI-ADDR[10]/PEVC-PAD_EVT[9]/USART1-CTS/USART1-CLK/PWM-PWMH[3]/EIC-SCAN[7]/TC1-CLK0/MACB-RXD[1]
PD15/TC0-A0/USART3-TXD/EBI-ADDR[11]
PD16/TC0-B0/USART3-RXD/EBI-ADDR[12]
PD17/TC0-A1/USART3-CTS/EBI-ADDR[13]/USART3-CLK
PD18/TC0-B1/USART3-RTS/EBI-ADDR[14]
PD19/TC0-A2/EBI-ADDR[15]
PD20/TC0-B2/EBI-ADDR[16]
PD21/USART3-TXD/EIC-EXTINT[0]/EBI-ADDR[17]/QDEC1-QEPI
PD22/USART3-RXD/TC0-A2]/EBI-ADDR[18]/SCIF-GCLK[0]
PD23/USART3-CTS/USART3-CLK/EBI-ADDR[19]/QDEC1-QEPA
PD24/USART3-RTS/EIC-EXTINT[8]/EBI-NWE1/QDEC1-QEPB
PD25/TC0-CLK0/USB-ID/EBI-NWE0/USART4-CLK
PD26/TC0-CLK1/USB-VBOF/EBI-NRD
PD27/USART0-TXD/CANIF-RXLINE[0]/EBI-NCS[1]/TC0-A0/MACB-RXD[1]
PD28/USART0-RXD/CANIF-TXLINE[0]/EBI-NCS[2]/TC0-B0/MACB-RX_DV
PD29/USART0-CTS/EIC-EXTINT[6]/USART0-CLK/TC0-B0/MACB-TX_CLK
PD30/USART0-RXD/EIC-EXTINT[3]/EBI-NWAIT/TC0-A1/MACB-TX_EN
TCK/CANIF-TXLINE[1]/PA00
TDI/CANIF-RXLINE[1]/PEVC-PAD_EVT[0]/PA01
TDO/SCIF-GLK[0]/PEVC-PAD_EVT[1]/PA02
TMS/SCIF-GCLK[1]/EIC-EXINT[1]/PA03
ADCIN0/USB-ID/ACIFA0-ACAOUT/PA04
ADCIN1/USB-VBOF/ACIFA0-ACBOUT/PA05
ADCIN2/AC1AP1/PEVC-PAD_EVT[2]/PA06
ADCIN3/AC1AN1/PEVC-PAD_EVT[3]/PA07
ADCIN4/AC1BP1/EIC-EXTINT[2]/PA08
ADCIN5/AC1BN1/PA09
ADCIN6/EIC-EXTINT[4]/PEVC-PAD_EVT[13]/PA10
ADCIN7/ADCREF1/PEVC-PAD_EVT[14]/PA11
AC1AP0/SPIO-NPCS[0]/DAC1A/PA12
ADCIN15/AC1AN0/SPI0-NPCS[1]/PA13
AC1BP0/SPI1-NPCS[0]/PA14
AC1BN0/SPI1-NPCS[1]/DAC1B/PA15
ADCREF0/DACREF/PA16
ADCREFP/PA17
ADCREFN/PA18
ADCIN8/EIC-EXTINT[1]/PA19
ADCIN9/AC0AP0/DAC0A/PA20
ADCIN10/AC0BN0/DAC0B/PA21
MACB-SPEED/ADCIN11/AC0AN0/PEVC-PAD_EVT[4]/PA22
MACB-WOL/ADCIN12/AC0BP0/PEVC-PAD_EVT[5]/PA23
ADCIN13/SPI1-NCS[2]/PA24
ADCIN14/SPI1-NPCS[3]/EIC-EXTINT[0]/PA25
AC0AP1/EIC-EXTINT[1]/PA26
AC0AN1/EIC-EXTINT[2]/PA27
AC0BP1/EIC-EXTINT[3]/PA28
AC0BN1/EIC-EXTINT[0]/PA29
USART0-CLK/CANIF-RXLINE[1]/EIC-EXTINT[8]/PEVC-PAD_EVT[10]/XIN32/PB00
CANIF-TXLINE[1]/PEVC-PAD_EVT[11]/XOUT32/PB01
USB-ID/PEVC-PAD_EVT[6]/TC1-A1/XIN1/PB02
USB-VBOF/PEVC-PAD-EVT[7]/XOUT1/PB03
MACB-TXD[2]/SPI1-MOSI/CANIF-RXLINE[0]/QDEC1-QEPI/PB04
MACB-TXD[3]/SPI1-MISO/CANIF-TXLINE[0]/PEVC-PAD_EVT[12]/USART3-CLK/PB05
MACB-TX_ER/SPI1-SCK/QDEC1-QEPA/USART1-CLK/PB06
MACB-RX_DV/SPI1-NPCS[0]/EIC-EXTINT[2]/QDEC1-QEPB/PB07
MACB-RXD[1]/SPI1-NPCS[2]/PWM-PWMH[0]/EIC-SCAN[1]/PB08
USART1-DTR/SPI0-MOSI/PWM-PWML[1]/EIC-SCAN[2]/PB09
USART1-DSR/SPI0-MISO/PWM-PWMH[1]/EIC-SCAN[3]/PB10
USART1-DCD/SPI0-SCK/PWM-PWML[2]/EIC-SCAN[4]/PB11
USART1-RI/SPI0-NPCS[0]/PWM-PWMH[2]/EIC-SCAN[5]/PB12
USART1-RTS/SPI0-NPCS[1]/PWM-PWML[2]/EIC-SCAN[6]/PB13
USART1-CTS/USART1-CLK/PWM-PWMH[3]/EIC-SCAN[7]/PB14
CANIF-RXLINE[0]USART1-RXD/SPI0-NPCS[2]/PWM-EXT_FAULTS[0]/PB15
CANIF-TXLINE[0]USART1-TXD/SPI0-NPCS[3]/PWM-EXT_FAULTS[1]/PB16
TC0-CLK2/EIC-EXTINT[4]/PB17
MACB-CRS/TC0-A0/SPI1-MOSI/SSC-TX_DATA/PB18
MACB-COL/TC0-B0/SPI1-MISO/IISC-ISDO/AC1FA1-ACAOUT/PB19
MACB-RXD[2]/TC0-CLK1/SPI1-SCK/IISC-ISDI/AC1FA1-ACBOUT/PB20
MACB-RXD[3]/TC0-A1/SPI1-NPCS[3]/IISC-IMCK/SCIF-GCLK[1]/PB21
MACB-RX_CLKTC0-B1/SPI1-NPCS[2]/IISC-IWS/PB22
TC0-CLK0/SPI1-NPCS[2]/PB23
TC0-A2/SPI1-NPCS[0]/PEVC-PAD_EVT[0]/PB24
MACB-TX_ENTC0-B2/SPI1-SCK/PEVC-PAD_EVT[9]/PB25
MACB-TXD[0]QDEC0-QEPA/SPI1-MISO/PEVC-PAD_EVT[10]/TC1-CLK0/PB26
MACB-TXD[1]QDEC0-QEPB/SPI1-MOSI/PEVC-PAD_EVT[11]/TC1-B0/PB27
QDEC0-QEPI/SPI0-NPCS[0]/PEVC-PAD_EVT[12]/TC1-A0/PB28
XIN0/PB30
XOUT0/PB31
RESET
DM
DP
VBUS
VDDIN_5
VDDIN_33
VDDIO
VDDIO
VDDIO
VDDIO
VDDCORE
GNDCORE
VDDANA
GNDANA
GNDPLL
GNDIO
GNDIO
GNDIO
GNDIO
AT32UC3C0128/0256/0512
SJ3
VDD
VDD33
C1
2.2µ
C2
470p
GND
VDDCORE
C3
2.2µ
C4
470p
L1
RF EMI
VDDANA
C12
100n
C5
100n
PA17
C6
100n
PA18
AW
D1
10k
R1
NRST
560n
C7
S1
PB30
G1
20M
C8
22p
PB31
C9
22p
PB0
G2
32k
C10
22p
PB1
C11
22p
USB_ID
DP_PIN
DM_PIN
VBUS
R2
R3
39
P$1*5
P$6
P$5
P$7
P$9
GND
ID
D+
D-
VBUS
DP
DM
SJ2
10k
R4
PA14
SJ1
S2
JP1
PA
JP2
PB
JP3
PC
JP4
PD