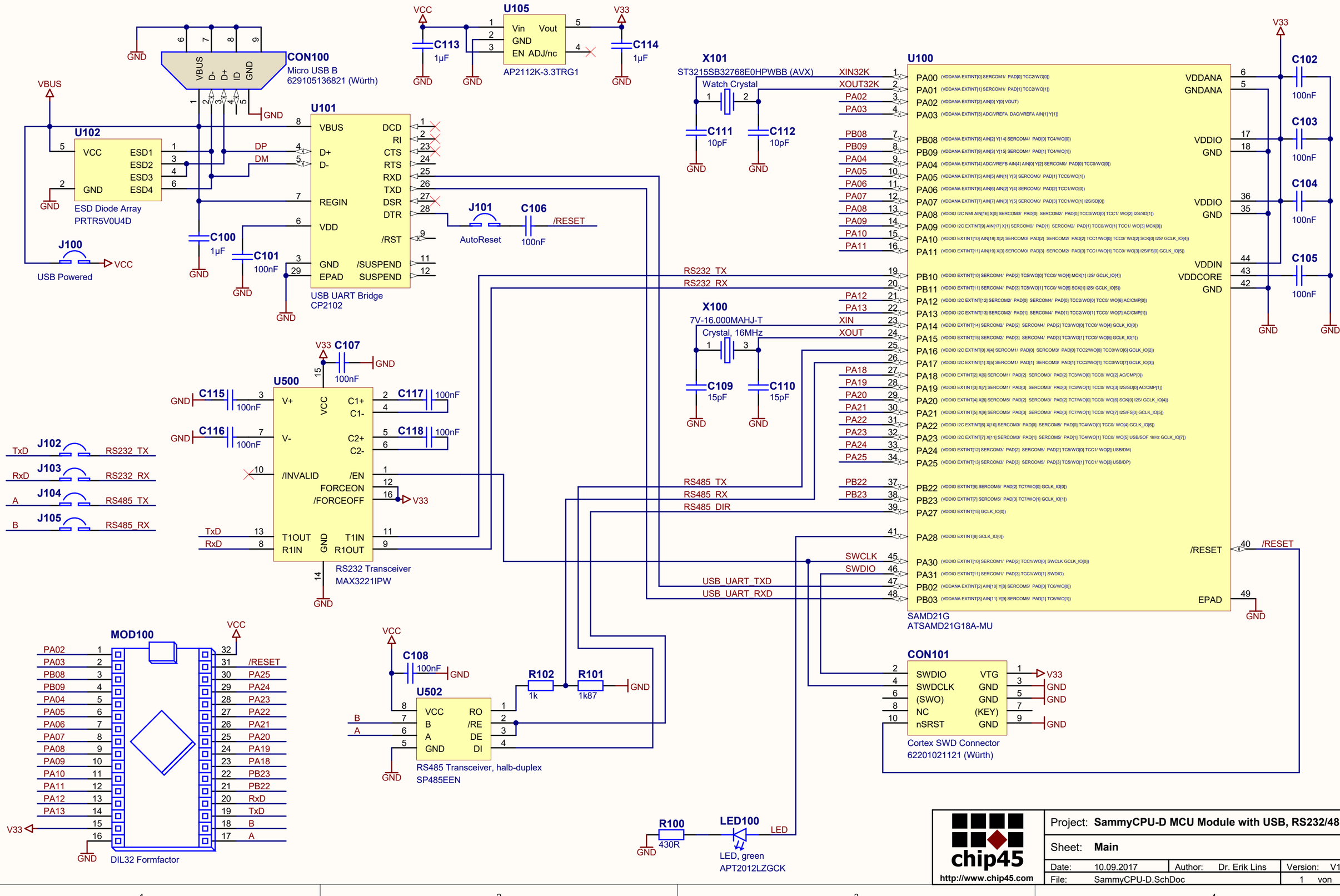
CON100
Micro USB B
629105136821 (Würth)
VBUS
D-
D+
ID
GND
U105
AP2112K-3.3TRG1
Vin
Vout
GND
EN
ADJ/nc
C113
1µF
C114
1µF
V33
VCC
U101
USB UART Bridge
CP2102
VBUS
D+
D-
REGIN
VDD
GND
EPAD
DCD
RI
CTS
RTS
RXD
TXD
DSR
DTR
/RST
/SUSPEND
SUSPEND
DP
DM
U102
ESD Diode Array
PRTR5V0U4D
VCC
GND
ESD1
ESD2
ESD3
ESD4
C100
1µF
C101
100nF
J100
USB Powered
J101
AutoReset
C106
100nF
/RESET
X101
ST3215SB32768E0HPWBB (AVX)
Watch Crystal
C111
10pF
C112
10pF
X100
7V-16.000MAHJ-T
Crystal, 16MHz
C109
15pF
C110
15pF
U100
SAMD21G
ATSAMD21G18A-MU
XIN32K
XOUT32K
XIN
XOUT
PA00
PA01
PA02
PA03
PB08
PB09
PA04
PA05
PA06
PA07
PA08
PA09
PA10
PA11
PB10
PB11
PA12
PA13
PA14
PA15
PA16
PA17
PA18
PA19
PA20
PA21
PA22
PA23
PA24
PA25
PB22
PB23
PA27
PA28
PA30
PA31
PB02
PB03
VDDANA
GNDANA
VDDIO
GND
VDDIN
VDDCORE
/RESET
EPAD
C102
C103
C104
C105
100nF
V33
RS232_TX
RS232_RX
RS485_TX
RS485_RX
RS485_DIR
USB_UART_TXD
USB_UART_RXD
SWCLK
SWDIO
U500
RS232 Transceiver
MAX3221IPW
V+
V-
C1+
C1-
C2+
C2-
VCC
/INVALID
/EN
FORCEON
/FORCEOFF
T1OUT
R1IN
T1IN
R1OUT
C115
C116
C117
C118
C107
J102
J103
J104
J105
TxD
RxD
A
B
MOD100
DIL32 Formfactor
U502
RS485 Transceiver, halb-duplex
SP485EEN
C108
R102
1k
R101
1k87
R100
430R
LED100
LED, green
APT2012LZGCK
LED
CON101
Cortex SWD Connector
62201021121 (Würth)
SWDIO
SWDCLK
(SWO)
NC
nSRST
VTG
(KEY)
Project: SammyCPU-D MCU Module with USB, RS232/485
Sheet: Main
Date: 10.09.2017
Author: Dr. Erik Lins
Version: V1.0
File: SammyCPU-D.SchDoc
1 von 1
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