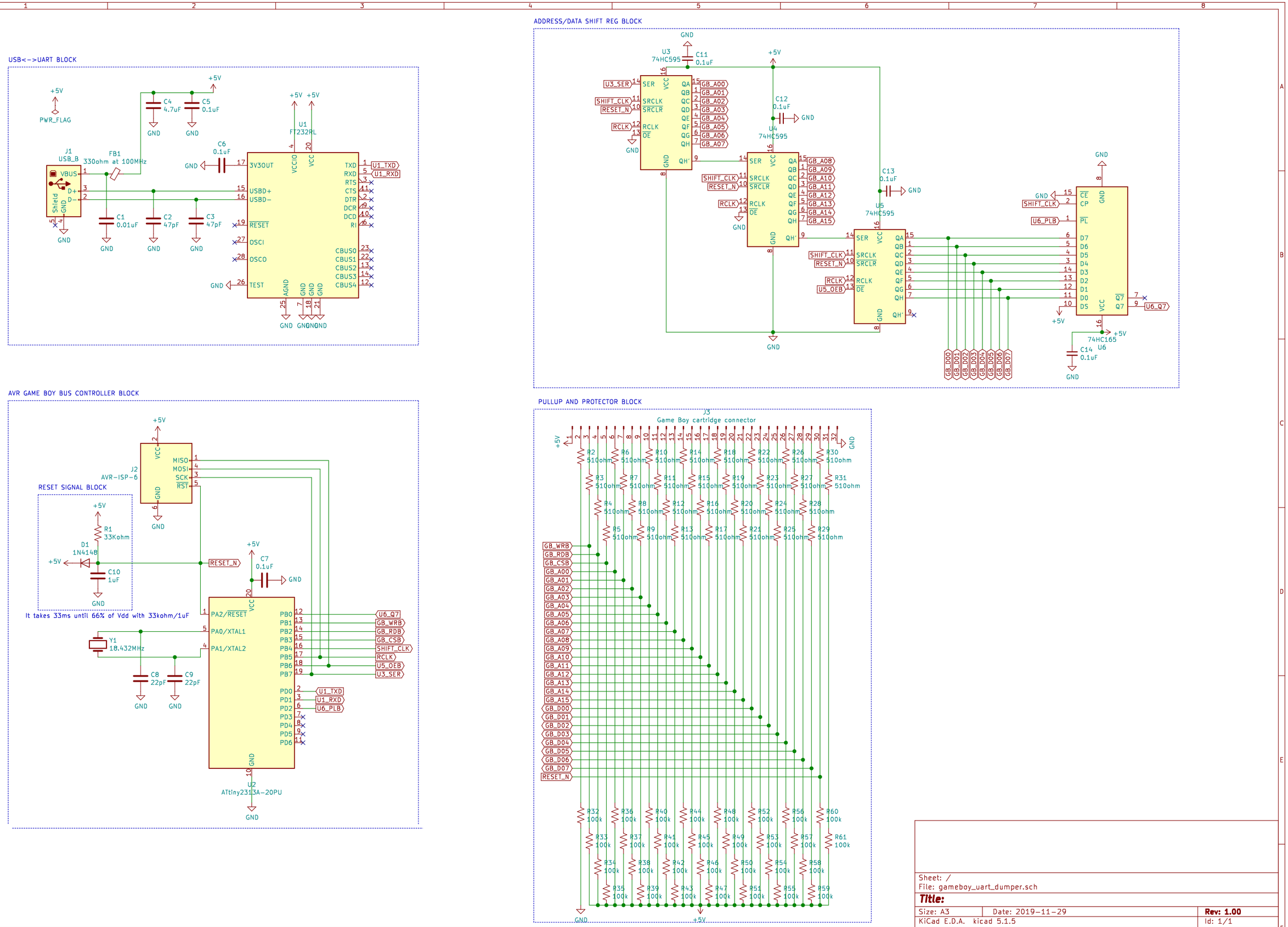
USB<->UART BLOCK
PWR_FLAG
J1
USB_B
FB1
330ohm at 100MHz
C1
0.01uF
C2
47pF
C3
47pF
C4
4.7uF
C5
0.1uF
C6
0.1uF
U1
FT232RL
3V3OUT
USBD+
USBD-
RESET
OSCI
OSCO
TEST
VCCIO
VCC
AGND
TXD
RXD
RTS
CTS
DTR
DCR
DCD
RI
CBUS0
CBUS1
CBUS2
CBUS3
CBUS4
U1_TXD
U1_RXD
ADDRESS/DATA SHIFT REG BLOCK
U3
74HC595
U4
74HC595
U5
74HC595
C11
0.1uF
C12
0.1uF
C13
0.1uF
U3_SER
SHIFT_CLK
RESET_N
RCLK
U5_OEB
U6_PLB
U6_Q7
74HC165
U6
C14
0.1uF
AVR GAME BOY BUS CONTROLLER BLOCK
J2
AVR-ISP-6
MISO
MOSI
SCK
RST
RESET SIGNAL BLOCK
R1
33Kohm
D1
1N4148
C10
1uF
It takes 33ms until 66% of Vdd with 33kohm/1uF
RESET_N
C7
0.1uF
Y1
18.432MHz
C8
22pF
C9
22pF
PA2/RESET
PA0/XTAL1
PA1/XTAL2
PB0
PB1
PB2
PB3
PB4
PB5
PB6
PB7
PD0
PD1
PD2
PD3
PD4
PD5
PD6
U2
ATtiny2313A-20PU
PULLUP AND PROTECTOR BLOCK
J3
Game Boy cartridge connector
GB_WRB
GB_RDB
GB_CSB
GB_A00
GB_A01
GB_A02
GB_A03
GB_A04
GB_A05
GB_A06
GB_A07
GB_A08
GB_A09
GB_A10
GB_A11
GB_A12
GB_A13
GB_A14
GB_A15
GB_D00
GB_D01
GB_D02
GB_D03
GB_D04
GB_D05
GB_D06
GB_D07
RESET_N
R2 510ohm
R3 510ohm
R4 510ohm
R5 510ohm
R6 510ohm
R7 510ohm
R8 510ohm
R9 510ohm
R10 510ohm
R11 510ohm
R12 510ohm
R13 510ohm
R14 510ohm
R15 510ohm
R16 510ohm
R17 510ohm
R18 510ohm
R19 510ohm
R20 510ohm
R21 510ohm
R22 510ohm
R23 510ohm
R24 510ohm
R25 510ohm
R26 510ohm
R27 510ohm
R28 510ohm
R29 510ohm
R30 510ohm
R31 510ohm
R32 100k
R33 100k
R34 100k
R35 100k
R36 100k
R37 100k
R38 100k
R39 100k
R40 100k
R41 100k
R42 100k
R43 100k
R44 100k
R45 100k
R46 100k
R47 100k
R48 100k
R49 100k
R50 100k
R51 100k
R52 100k
R53 100k
R54 100k
R55 100k
R56 100k
R57 100k
R58 100k
R59 100k
R60 100k
R61 100k
Sheet: /
File: gameboy_uart_dumper.sch
Title:
Size: A3
Date: 2019-11-29
Rev: 1.00
KiCad E.D.A. kicad 5.1.5
Id: 1/1