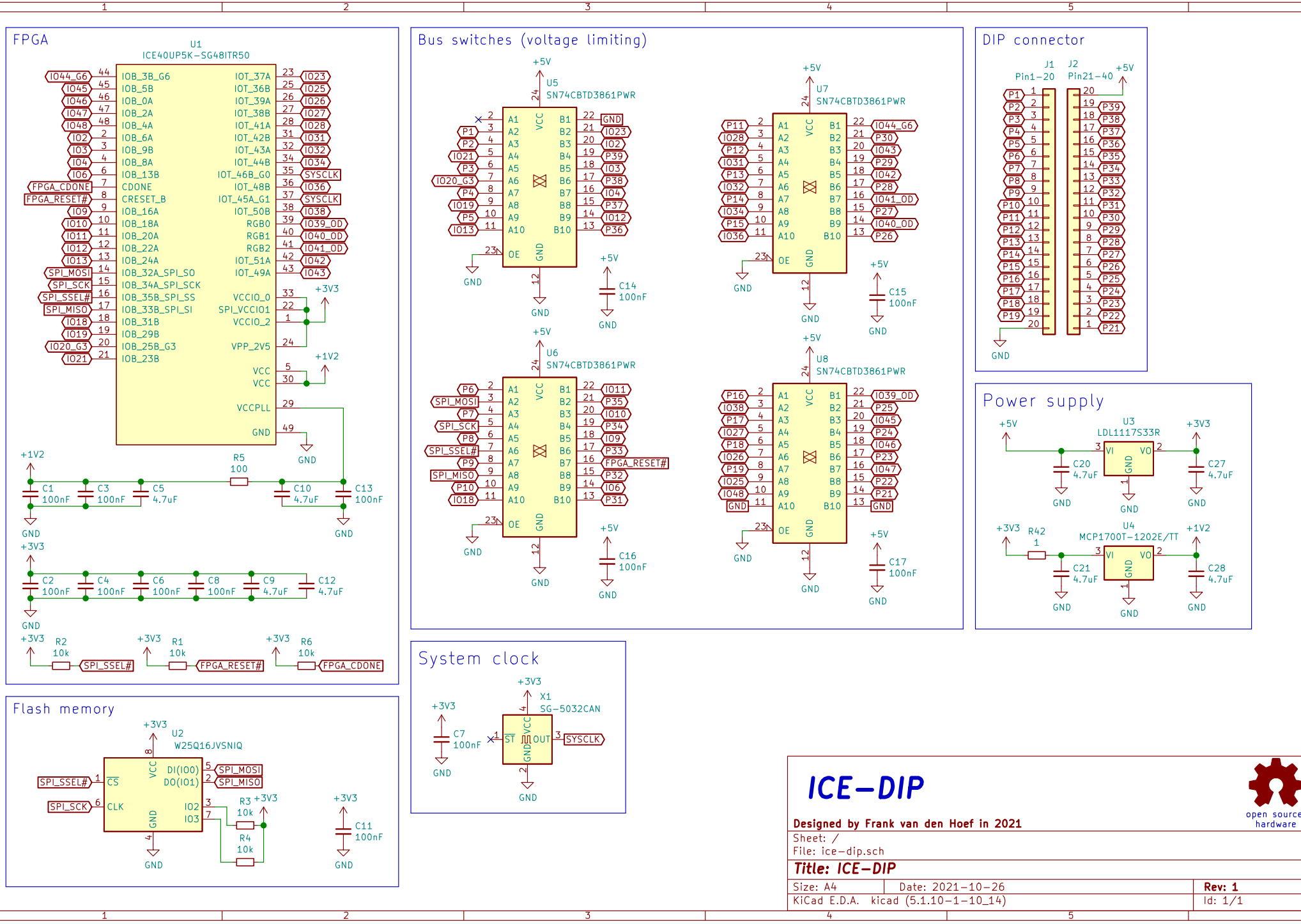
FPGA
U1
ICE40UP5K-SG48ITR50
IOB_3B_G6
IOB_5B
IOB_0A
IOB_2A
IOB_4A
IOB_6A
IOB_9B
IOB_8A
IOB_13B
CDONE
CRESET_B
IOB_16A
IOB_18A
IOB_20A
IOB_22A
IOB_24A
IOB_32A_SPI_SO
IOB_34A_SPI_SCK
IOB_35B_SPI_SS
IOB_33B_SPI_SI
IOB_31B
IOB_29B
IOB_25B_G3
IOB_23B
IOT_37A
IOT_36B
IOT_39A
IOT_38B
IOT_41A
IOT_42B
IOT_43A
IOT_44B
IOT_46B_G0
IOT_48B
IOT_45A_G1
IOT_50B
RGB0
RGB1
RGB2
IOT_51A
IOT_49A
VCCIO_0
SPI_VCCIO1
VCCIO_2
VPP_2V5
VCC
VCC
VCCPLL
GND
IO44_G6
IO45
IO46
IO47
IO48
IO2
IO3
IO4
IO6
FPGA_CDONE
FPGA_RESET#
IO9
IO10
IO11
IO12
IO13
SPI_MOSI
SPI_SCK
SPI_SSEL#
SPI_MISO
IO18
IO19
IO20_G3
IO21
IO23
IO25
IO26
IO27
IO28
IO31
IO32
IO34
SYSCLK
IO36
SYSCLK
IO38
IO39_OD
IO40_OD
IO41_OD
IO42
IO43
+3V3
+1V2
R5
100
C1
100nF
C3
100nF
C5
4.7uF
C10
4.7uF
C13
100nF
C2
100nF
C4
100nF
C6
100nF
C8
100nF
C9
4.7uF
C12
4.7uF
R2
10k
R1
10k
R6
10k
Bus switches (voltage limiting)
U5
SN74CBTD3861PWR
U6
SN74CBTD3861PWR
U7
SN74CBTD3861PWR
U8
SN74CBTD3861PWR
C14
100nF
C15
100nF
C16
100nF
C17
100nF
DIP connector
J1
Pin1-20
J2
Pin21-40
Power supply
U3
LDL1117S33R
C20
4.7uF
C27
4.7uF
U4
MCP1700T-1202E/TT
R42
C21
4.7uF
C28
4.7uF
System clock
X1
SG-5032CAN
C7
100nF
Flash memory
U2
W25Q16JVSNIQ
R3
10k
R4
10k
C11
100nF
ICE-DIP
Designed by Frank van den Hoef in 2021
open source hardware
Sheet: /
File: ice-dip.sch
Title: ICE-DIP
Size: A4
Date: 2021-10-26
Rev: 1
KiCad E.D.A. kicad (5.1.10-1-10_14)
Id: 1/1