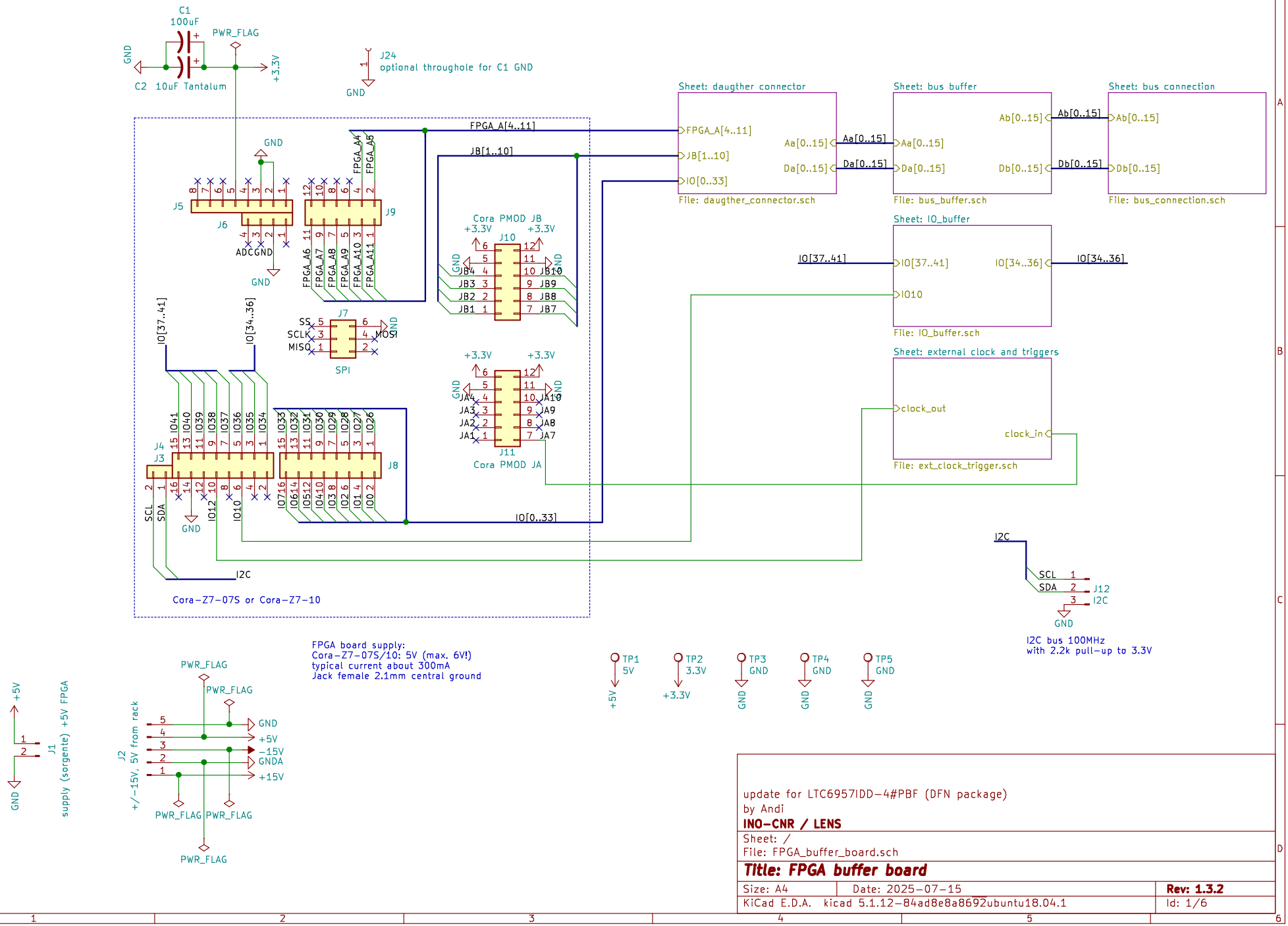
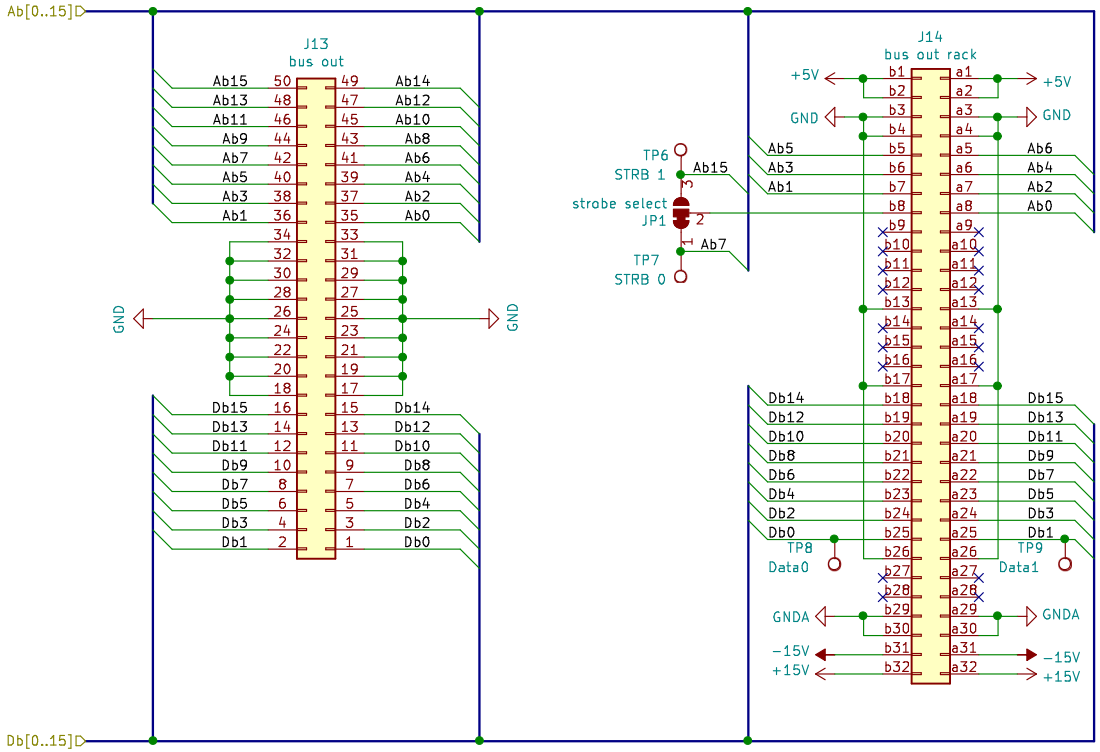

C1
100uF
PWR_FLAG
GND
+3.3V
C2 10uF Tantalum
J24
optional throughole for C1 GND
Sheet: daugther connector
FPGA_A[4..11]
JB[1..10]
IO[0..33]
File: daugther_connector.sch
Sheet: bus buffer
Aa[0..15]
Da[0..15]
Ab[0..15]
Db[0..15]
File: bus_buffer.sch
Sheet: bus connection
File: bus_connection.sch
Sheet: IO_buffer
IO[37..41]
IO[34..36]
IO010
File: IO_buffer.sch
Sheet: external clock and triggers
clock_out
clock_in
File: ext_clock_trigger.sch
Cora PMOD JB
Cora PMOD JA
SPI
I2C
Cora-Z7-07S or Cora-Z7-10
FPGA board supply:
Cora-Z7-07S/10: 5V (max. 6V!)
typical current about 300mA
Jack female 2.1mm central ground
supply (sorgente) +5V FPGA
+/-15V, 5V from rack
+5V
-15V
GNDA
+15V
I2C bus 100MHz
with 2.2k pull-up to 3.3V
update for LTC6957IDD-4#PBF (DFN package)
by Andi
INO-CNR / LENS
Sheet: /
File: FPGA_buffer_board.sch
Title: FPGA buffer board
Size: A4
Date: 2025-07-15
Rev: 1.3.2
KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu18.04.1
Id: 1/6



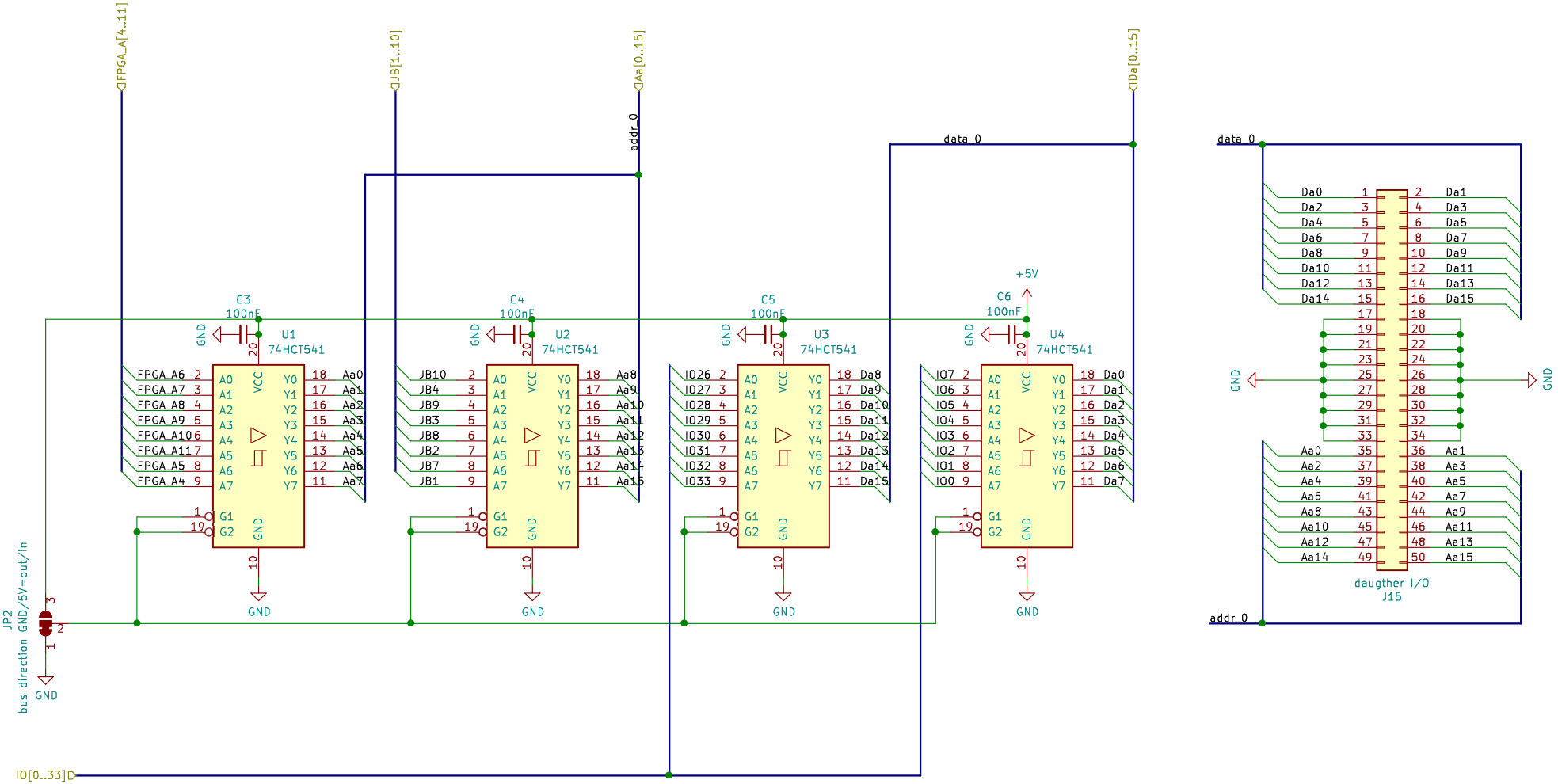
by Andi

INO-CNR / LENS

Sheet: /bus connection/
File: bus_connection.sch

Title: FPGA buffer board

Size: A4	Date: 2025-07-15	**Rev: 1.3.2**
KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu18.04.1		Id: 2/6



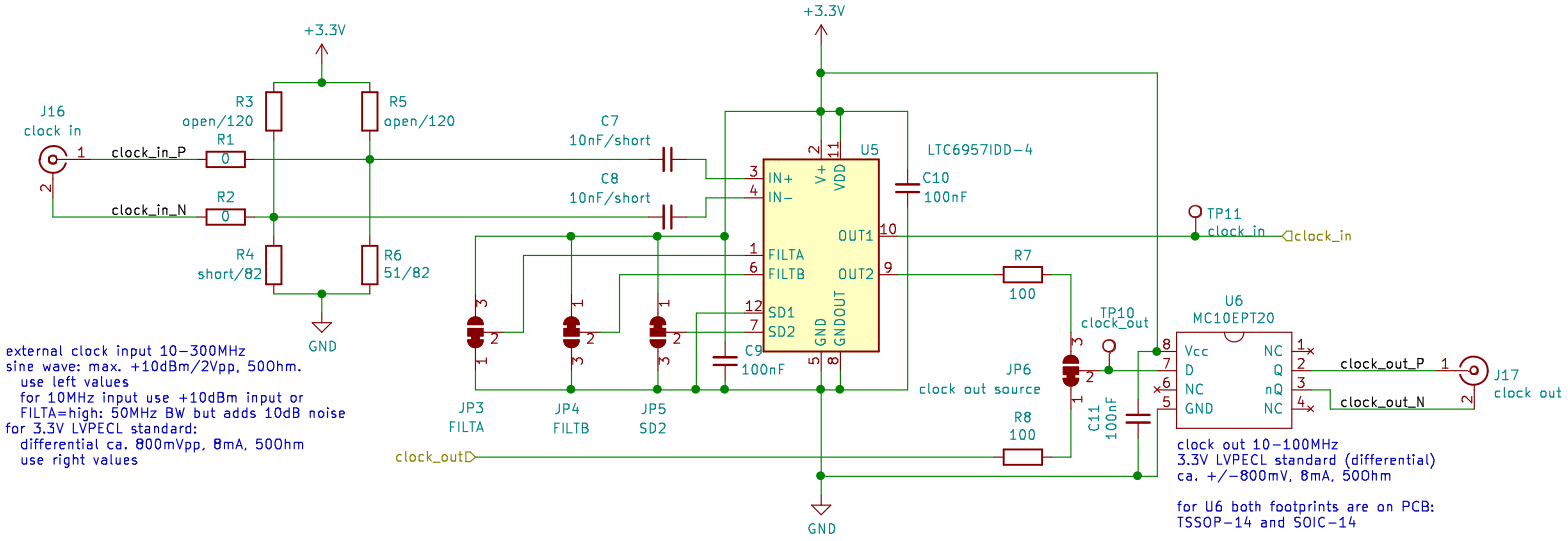
by Andi

INO-CNR / LENS

Sheet: /daugther connector/
File: daugther_connector.sch

Title: FPGA buffer board

Size: A4	Date: 2025-07-15	**Rev: 1.3.2**
KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu18.04.1		Id: 3/6



this design v1.3.2 uses CMOS output with DFN package:
LTC6957IDD–3: 2x CMOS in–phase output)
LTC6957IDD–4: 2x CMOS complementary output

design v1.3 uses CMOS output with MSOP package:
LTC6957xMS–3: 2x CMOS in–phase output)
LTC6957xMS–4: 2x CMOS complementary output

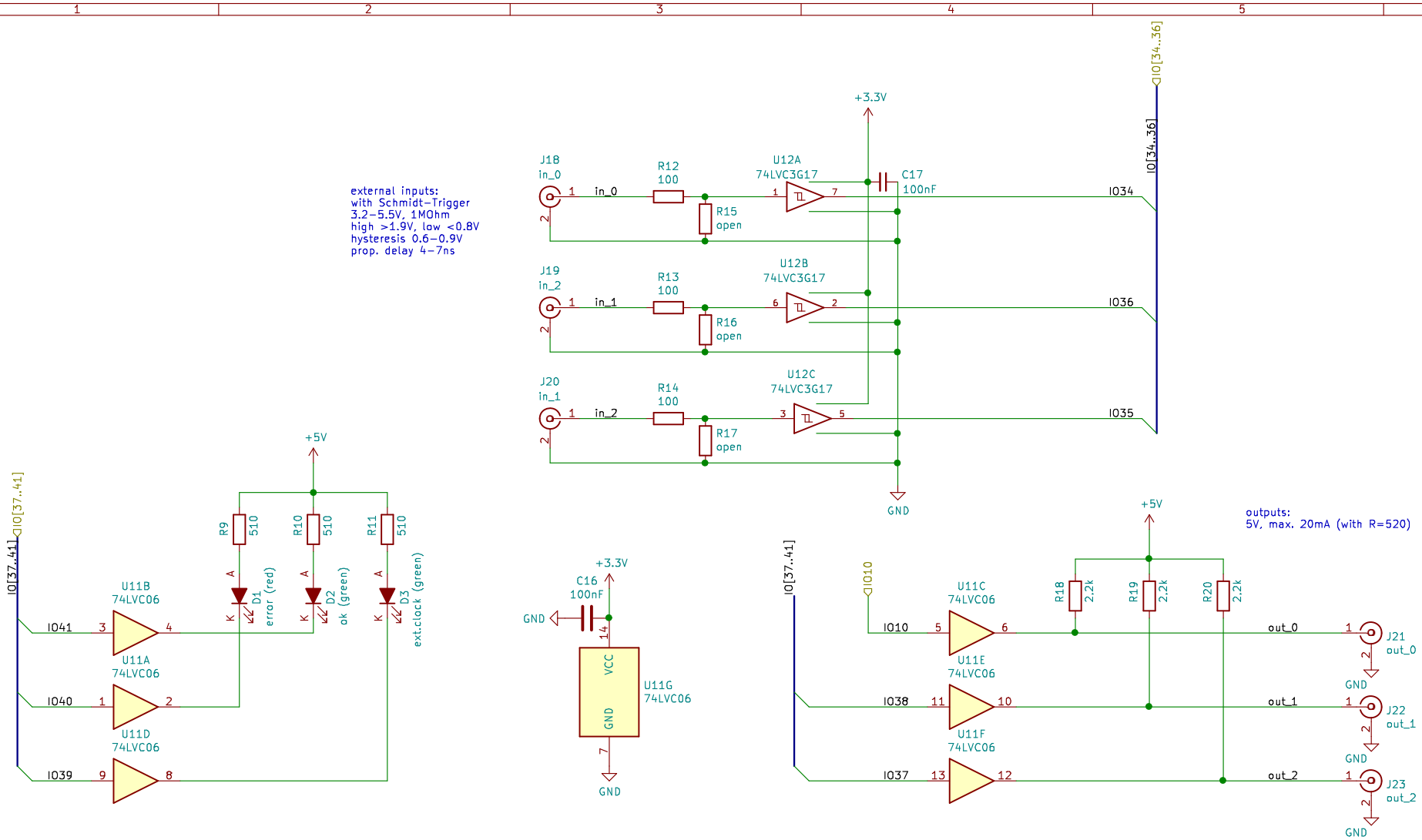
design v1.4 uses LVDS output with MSOP package:
LTC6957xMS–2: 1x LVDS output

by Andi
INO–CNR / LENS

Sheet: /external clock and triggers/
File: ext_clock_trigger.sch

Title: FPGA buffer board

Size: A4	Date: 2025–07–15	**Rev: 1.3.2**
KiCad E.D.A. kicad 5.1.12–84ad8e8a8692ubuntu18.04.1		Id: 4/6



by Andi

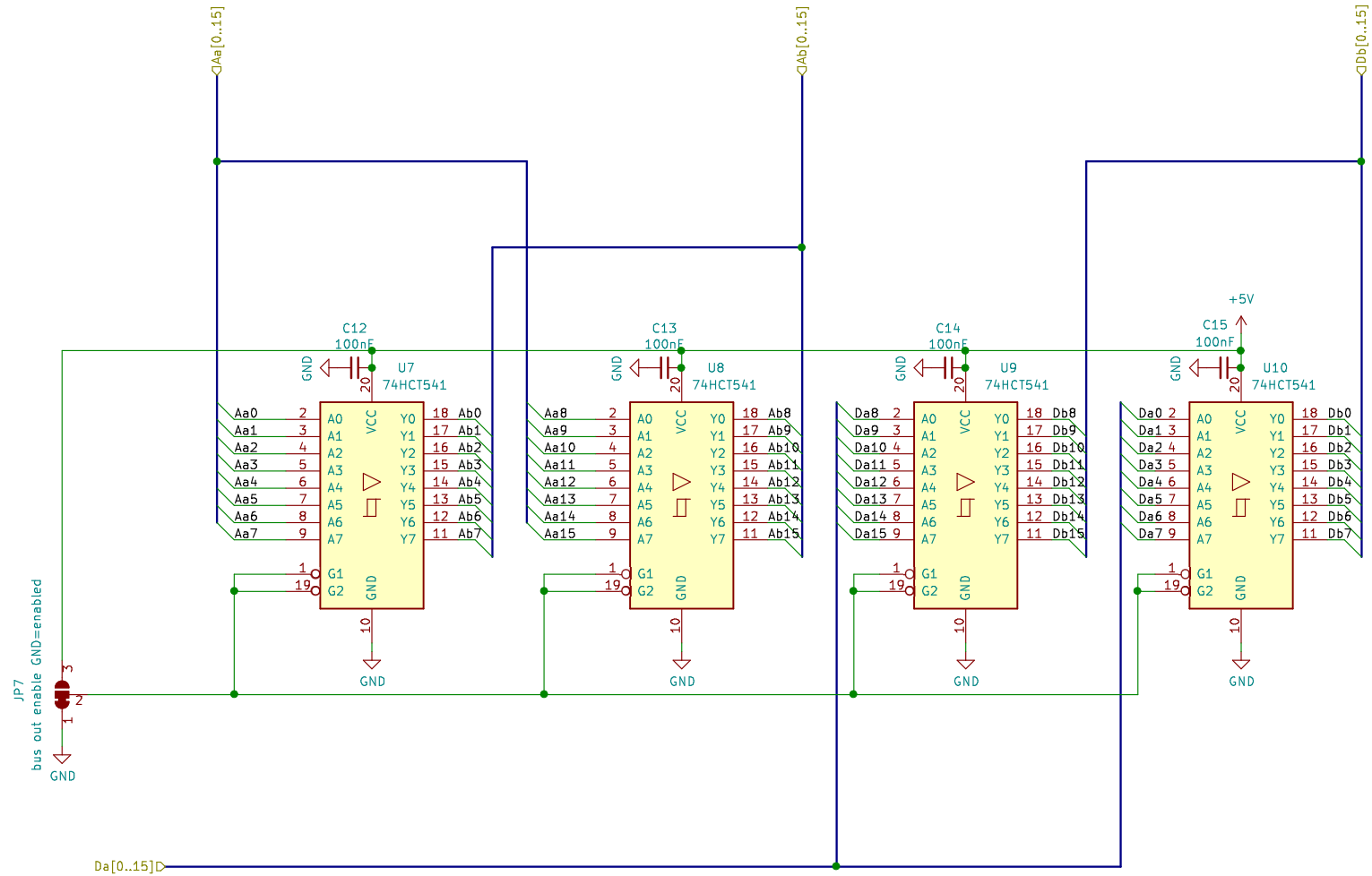
INO-CNR / LENS

Sheet: /IO_buffer/

File: IO_buffer.sch

Title: FPGA buffer board

Size: A4	Date: 2025-07-15	**Rev: 1.3.2**
KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu18.04.1		Id: 5/6



by Andi

INO-CNR / LENS

Sheet: /bus buffer/

File: bus_buffer.sch

Title: FPGA buffer board

Size: A4	Date: 2025-07-15	**Rev: 1.3.2**
KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu18.04.1		Id: 6/6