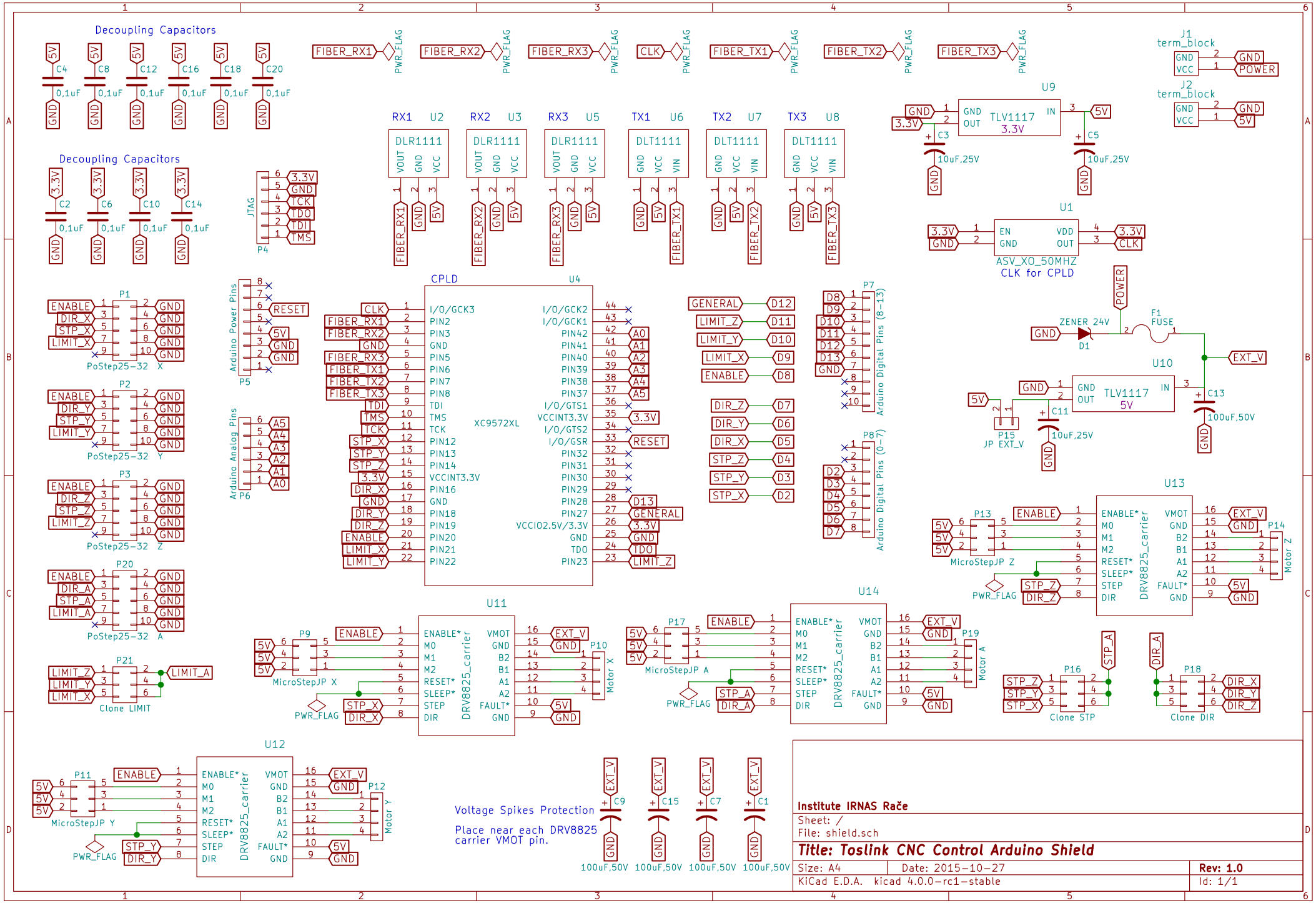
Decoupling Capacitors
C4 C8 C12 C16 C18 C20
0,1uF
Decoupling Capacitors
C2 C6 C10 C14
FIBER_RX1 FIBER_RX2 FIBER_RX3 CLK FIBER_TX1 FIBER_TX2 FIBER_TX3
PWR_FLAG
J1 term_block
J2 term_block
U9 TLV1117 3.3V
C3 10uF,25V
C5 10uF,25V
RX1 U2 DLR1111
RX2 U3 DLR1111
RX3 U5 DLR1111
TX1 U6 DLT1111
TX2 U7 DLT1111
TX3 U8 DLT1111
JTAG P4
U1 ASV_XO_50MHZ
CLK for CPLD
POWER
ZENER 24V D1
F1 FUSE
EXT_V
U10 TLV1117 5V
C11 10uF,25V
C13 100uF,50V
P15 JP EXT_V
P1 PoStep25-32 X
P2 PoStep25-32 Y
P3 PoStep25-32 Z
P20 PoStep25-32 A
P21 Clone LIMIT
Arduino Power Pins P5
Arduino Analog Pins P6
CPLD U4 XC9572XL
P7 Arduino Digital Pins (8-13)
P8 Arduino Digital Pins (0-7)
U13 DRV8825_carrier
P13 MicroStepJP Z
P14 Motor Z
U11 DRV8825_carrier
P9 MicroStepJP X
P10 Motor X
U14 DRV8825_carrier
P17 MicroStepJP A
P19 Motor A
P16 Clone STP
P18 Clone DIR
U12 DRV8825_carrier
P11 MicroStepJP Y
P12 Motor Y
Voltage Spikes Protection
Place near each DRV8825 carrier VMOT pin.
C9 C15 C7 C1
100uF,50V
Institute IRNAS Rače
Sheet: /
File: shield.sch
Title: Toslink CNC Control Arduino Shield
Size: A4
Date: 2015-10-27
Rev: 1.0
KiCad E.D.A. kicad 4.0.0-rc1-stable
Id: 1/1