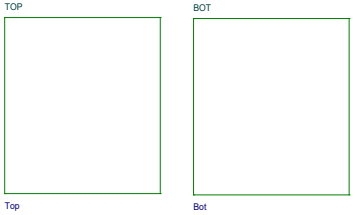
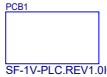
REV	Description	Who	Date
0.0	Initial 1. Replace Diodes D7,D8,D12,D14,D19,D22 by D-BZV55-B5V1 (change sch)	L.Dragilev	01/12/19
1.0	1. TOP Card: Digital Outputs- adding option of 6 solid state relays. 2. BOT Card: Analog Inputs - 2.1 adding unit gain perational amplifiers with option to support 5V or 12V or 24V analog inputs. 2.2 adding 2 coils and TVS on the isolated 5V & GND	Ofer Ostrinsky	26/04/20





TOP, BOT

Designer : Itzik Nizri / Ofer Ostrinsky

RAD data communications

Title: SF-1V-PLC Root

Size: C | Design Name : SF-1V-PLC | Rev: 1.0

Date: Monday, December 28, 2020 | Sheet 1 of 3

6 x Analog Inputs (5V/12V/24V)

Bottom Card

6 x Digital Inputs

Chage value to 249 Ohm for current loop (CL) ordering option

!!! To fix assembly location on PS side on PCB

Spare Units

5V Isolated Output

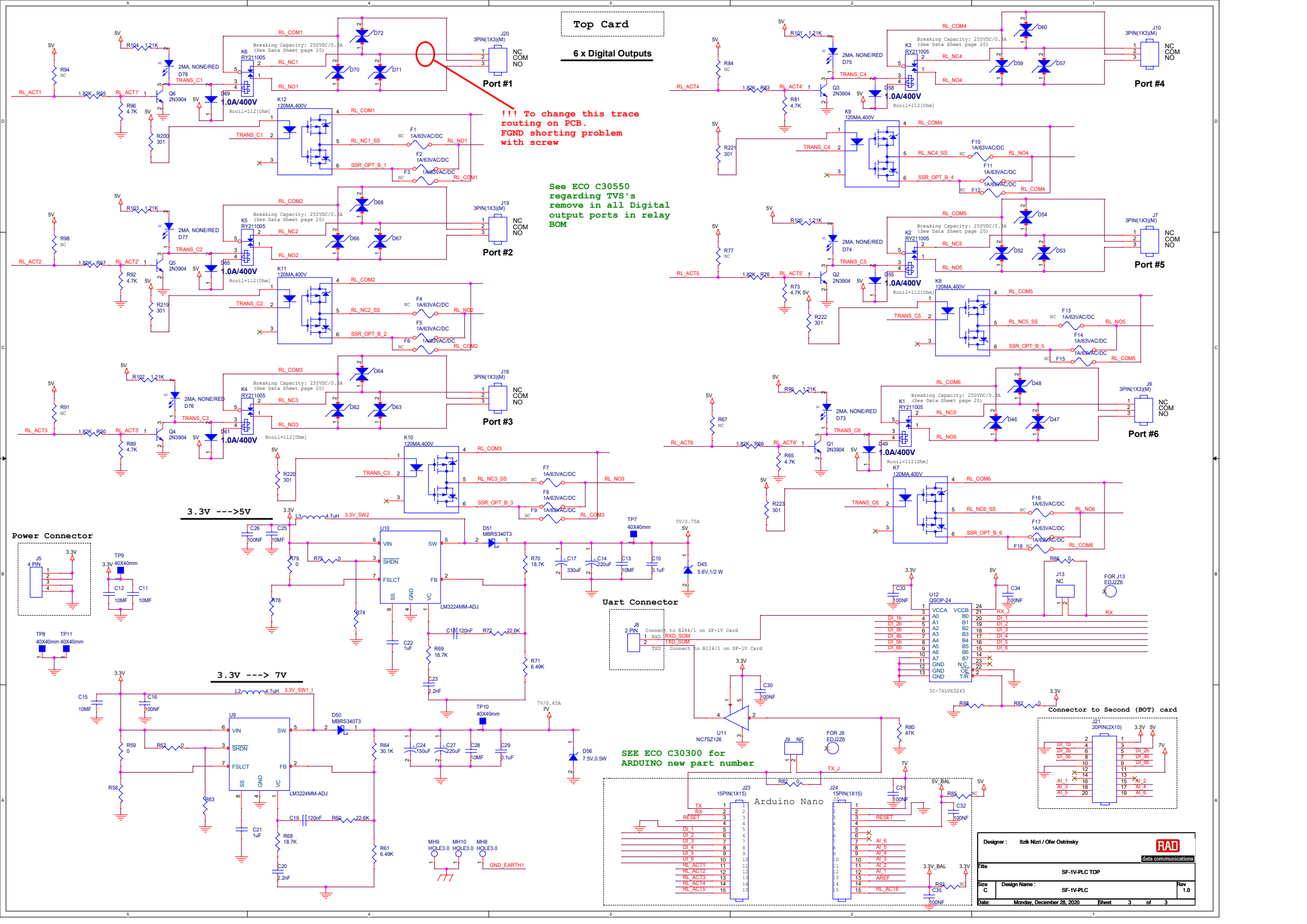
New Power Connector (From PS Card)

To/From PLC/TOP Card

Spare Units

5V_ISO: Active Low input
GND_ISO: Active High input

Designer :	Itzik Nizri / Ofer Ostrinsky		
Title	SF-1V-PLC BOT		
Size C	Design Name : SF-1V-PLC		Rev 1.0
Date:	Monday, December 28, 2020	Sheet 2 of 3	


Top Card
6 x Digital Outputs
!!! To change this trace routing on PCB. FGND shorting problem with screw
See ECO C30550 regarding TVS's remove in all Digital output ports in relay BOM
Port #1
Port #2
Port #3
Port #4
Port #5
Port #6
3.3V ---->5V
3.3V ---> 7V
Power Connector
Uart Connector
SEE ECO C30300 for ARDUINO new part number
Arduino Nano
Connector to Second (BOT) card
LM3224MM-ADJ
IC-74LVX3245
Designer : Itzik Nizri / Ofer Ostrinsky
Title SF-1V-PLC TOP
Design Name : SF-1V-PLC
Rev 1.0
Date: Monday, December 28, 2020
Sheet 3 of 3