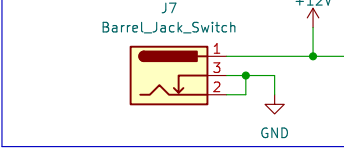


POWER SECTION

BARREL JACK INPUT
12V MAX



MPPT_SOLAR_CHARGER_CN3722



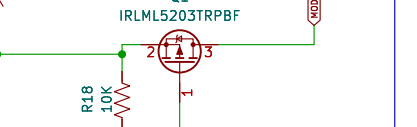
BUCK_BOOST_CONVERTER_TP563070_5V



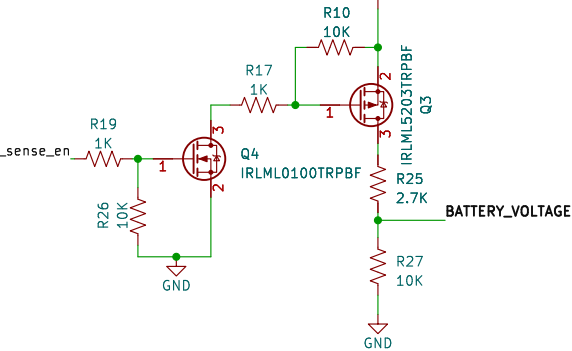
RT6154AGQW_3V3_BUCK_CONVERTER



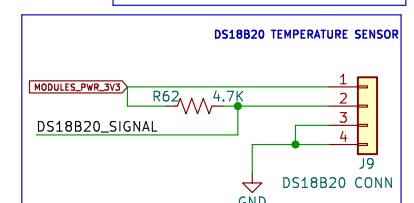
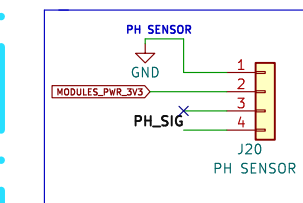
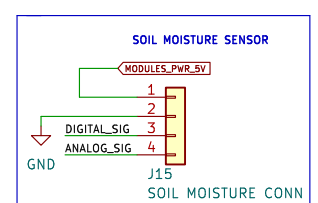
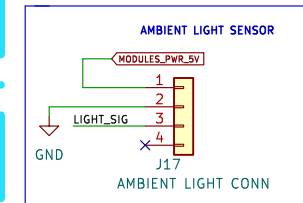
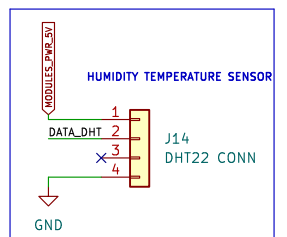
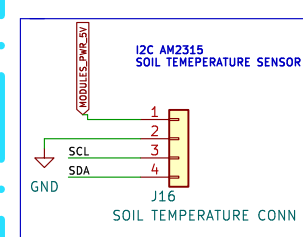
MPPT_SOLAR_CHARGER_CN3722



BATTERY VOLTAGE MONITOR

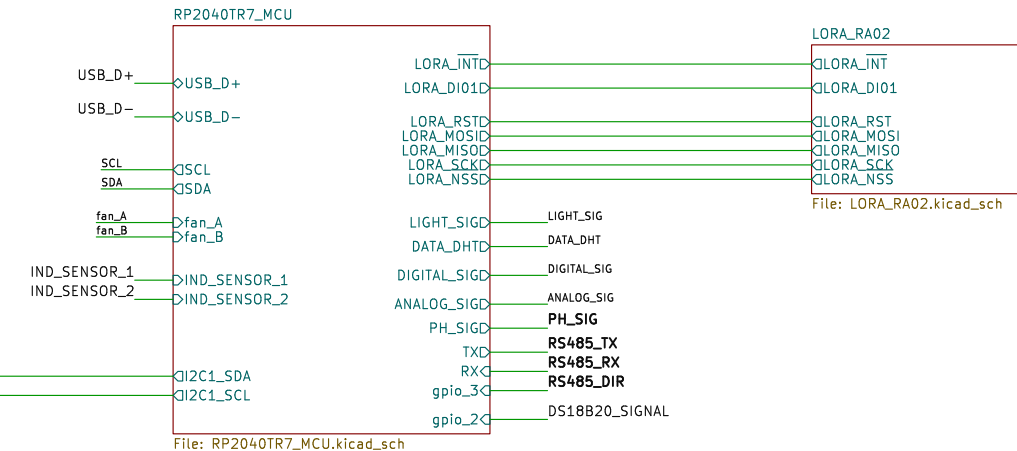
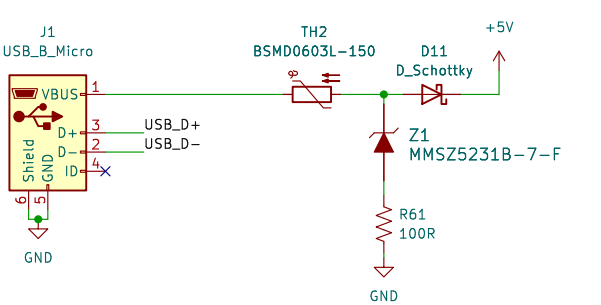


INPUT PROTOTYPE SENSORS CONNECTORS

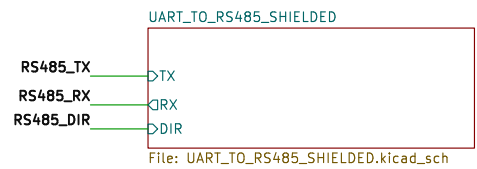


CONTROLLER AND COMMUNICATION

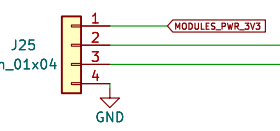
USB INPUT



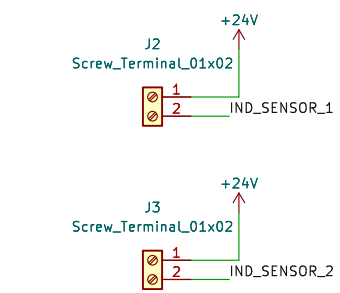
RS485 INTERFACE



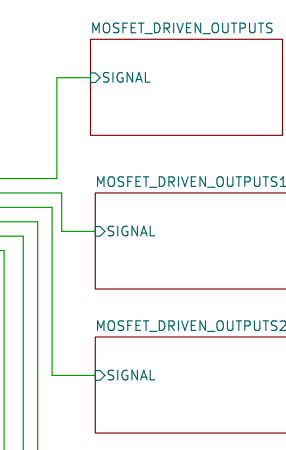
I2C CONNECTOR



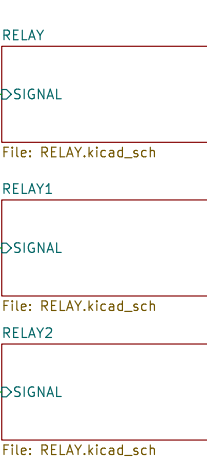
INDUSTRIAL SENSORS INPUT 4mA - 20mA SIGNALS



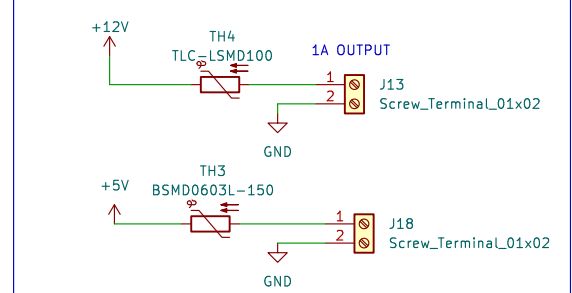
MOSFET OUTPUTS



RELAY OUTPUTS ISOLATED



POWER CONNECTORS



Sheet: /
File: RpiPico_Agriboard.kicad_sch

Title:

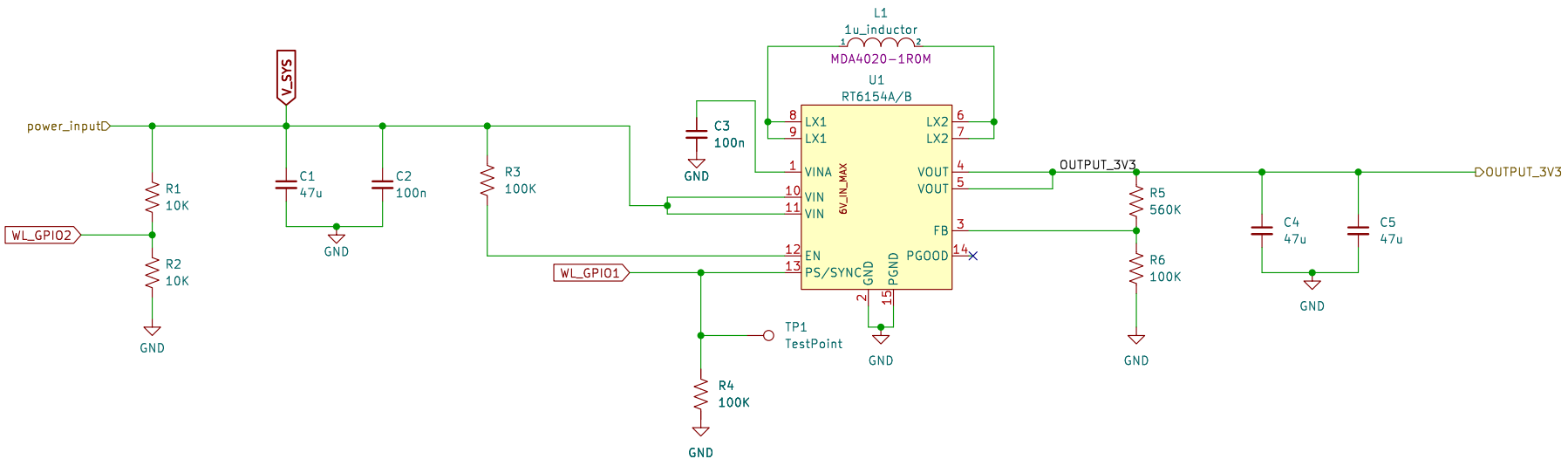
Size: A3
KiCad E.D.A. kicad 7.0.2

Date:

Rev:

Id: 1/17

3V3 BUCK BOOST REGULATOR



Sheet: /RT6154AGQW_3V3_BUCK_CONVERTER/
File: RT6154AGQW_3V3_BUCK_CONVERTER.kicad_sch

Title:

Size: A4

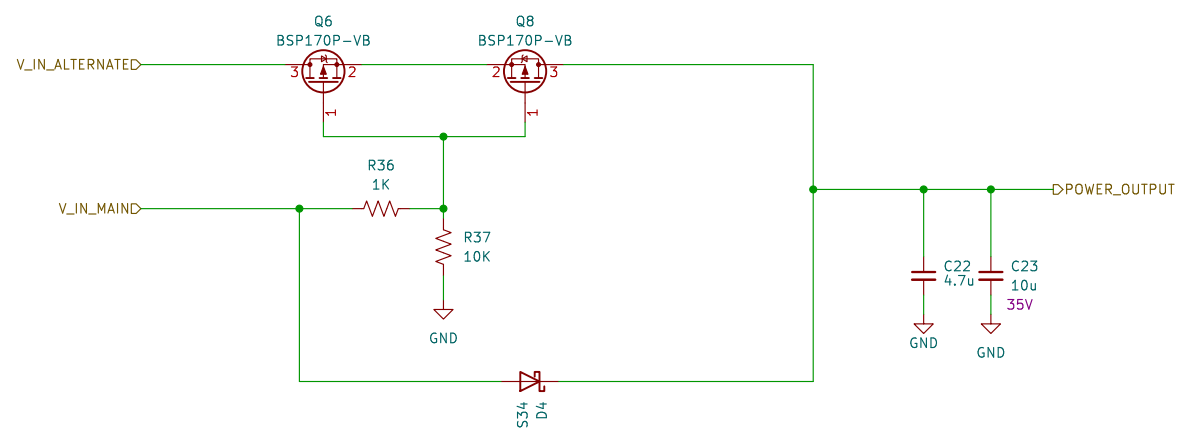
Date:

KiCad E.D.A. kicad 7.0.2

Rev:

Id: 2/17

POWER PATH SELECTOR WITH LOW QUIESCENT/LEAKAGE CURRENT



WHEN CIRUCIT IS ON 24v is ocnected
 - voltage across the gate is at a max of 20V(our gate can handle upto 25v)
 - when not connected the gateis at 0V and source at 5V which enable power to flow through the circuit

Sheet: /MPPT_SOLAR_CHARGER_CN3722/power_path_simple/
 File: power_path_simple.kicad_sch

Title:

Size: A4

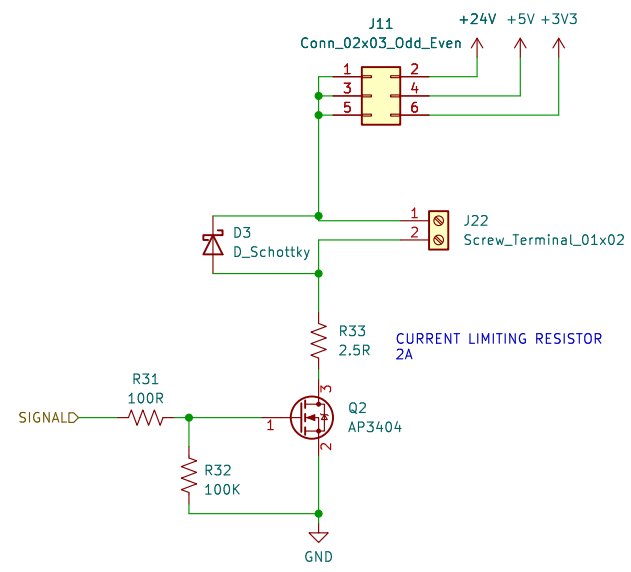
Date:

KiCad E.D.A. kicad 7.0.2

Rev:

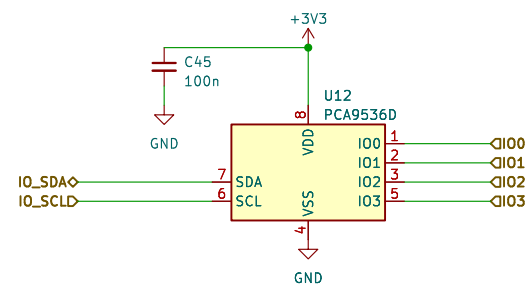
Id: 4/17

MOSFET DRIVER



Sheet: /MOSFET_DRIVEN_OUTPUTS1/ File: MOSFET_DRIVEN_OUTPUTS.kicad_sch		
Title:		
Size: A4	Date:	Rev:
KiCad E.D.A. kicad 7.0.2		Id: 5/17

io expander PCA9536D



Sheet: /RP2040TR7_MCU/IO_EXPANDER/
File: IO_EXPANDER.kicad_sch

Title:

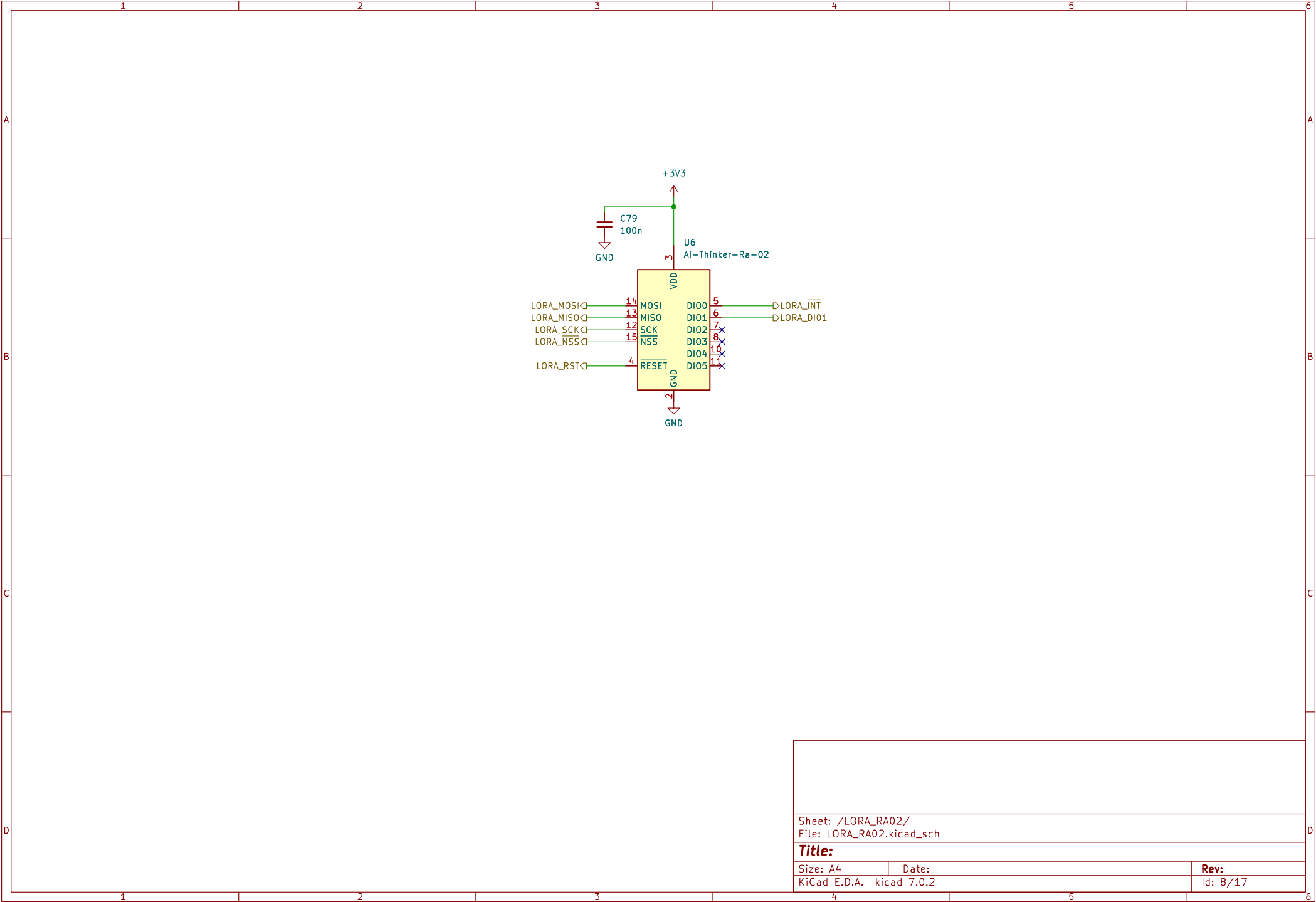
Size: A4

Date:

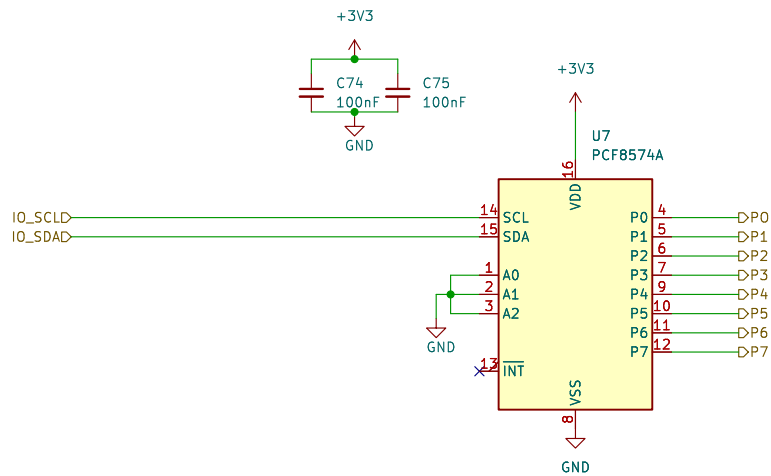
KiCad E.D.A. kicad 7.0.2

Rev:

Id: 6/17



IO EXPANDER



Sheet: /IO_EXPANDER_I2C/
File: IO_EXPANDER_I2C.kicad_sch

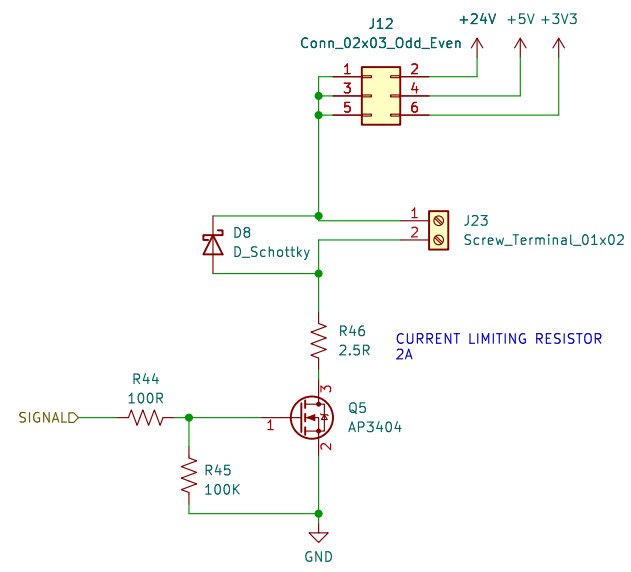
Title:

Size: A4
KiCad E.D.A. kicad 7.0.2

Date:

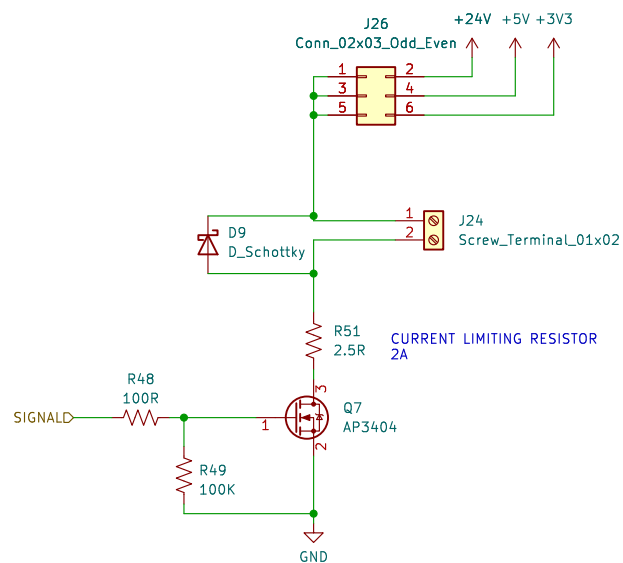
Rev:
Id: 9/17

MOSFET DRIVER



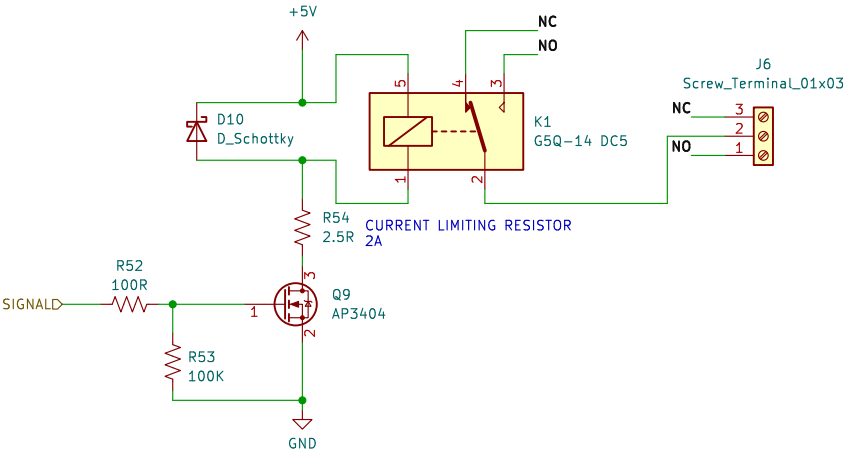
Sheet: /MOSFET_DRIVEN_OUTPUTS/ File: MOSFET_DRIVEN_OUTPUTS.kicad_sch		
Title:		
Size: A4	Date:	Rev:
KiCad E.D.A. kicad 7.0.2		Id: 10/17

J26 +24V +5V +3V3
Conn_02x03_Odd_Even ↑ ↑ ↑



Id: 11/17

RELAY DRIVER



Sheet: /RELAY1/
File: RELAY.kicad_sch

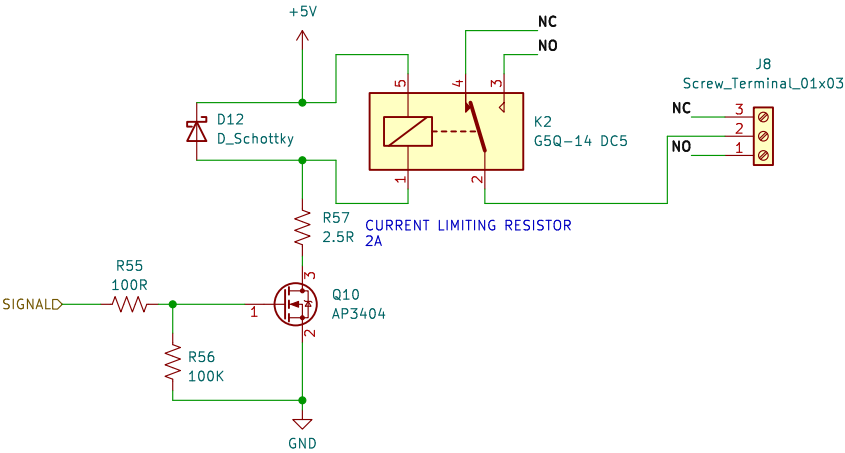
Title:

Size: A4
KiCad E.D.A. kicad 7.0.2

Date:

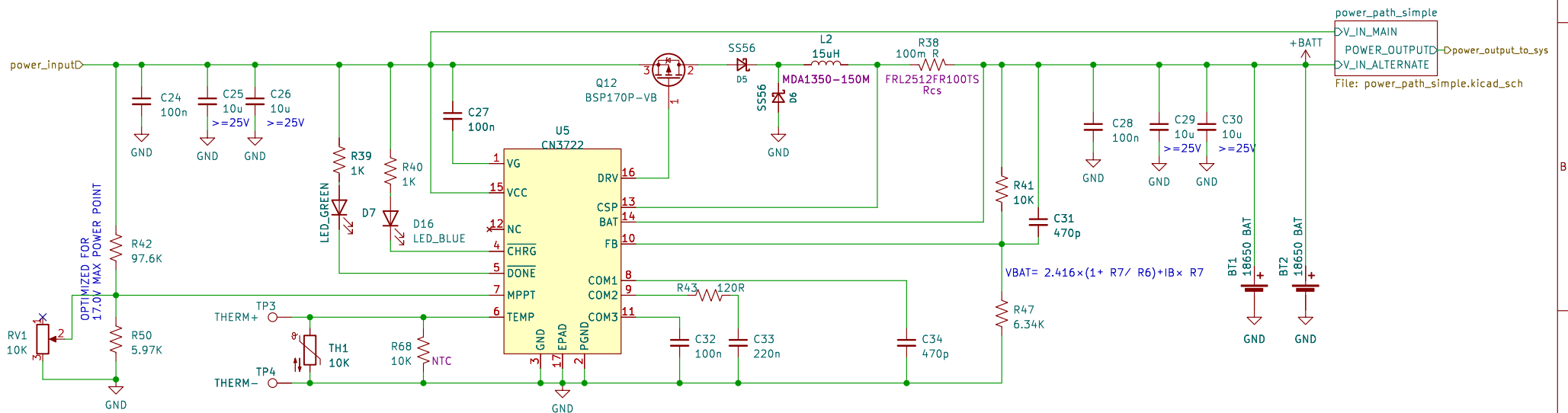
Rev:
Id: 12/17

RELAY DRIVER



Sheet: /RELAY/ File: RELAY.kicad_sch		
Title:		
Size: A4	Date:	Rev:
KiCad E.D.A. kicad 7.0.2		Id: 13/17

MPPT CHARGER CONTROLLER WITH BATTERY CHARGER



Sheet: /MPPT_SOLAR_CHARGER_CN3722/
File: MPPT_SOLAR_CHARGER_CN3722.kicad_sch

Title:

Size: A4

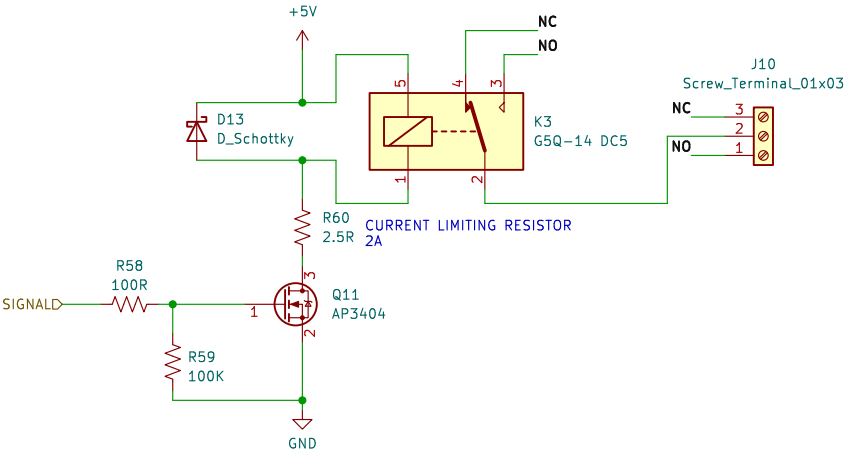
Date:

KiCad E.D.A. kicad 7.0.2

Rev:

Id: 14/17

RELAY DRIVER



Sheet: /RELAY2/
File: RELAY.kicad_sch

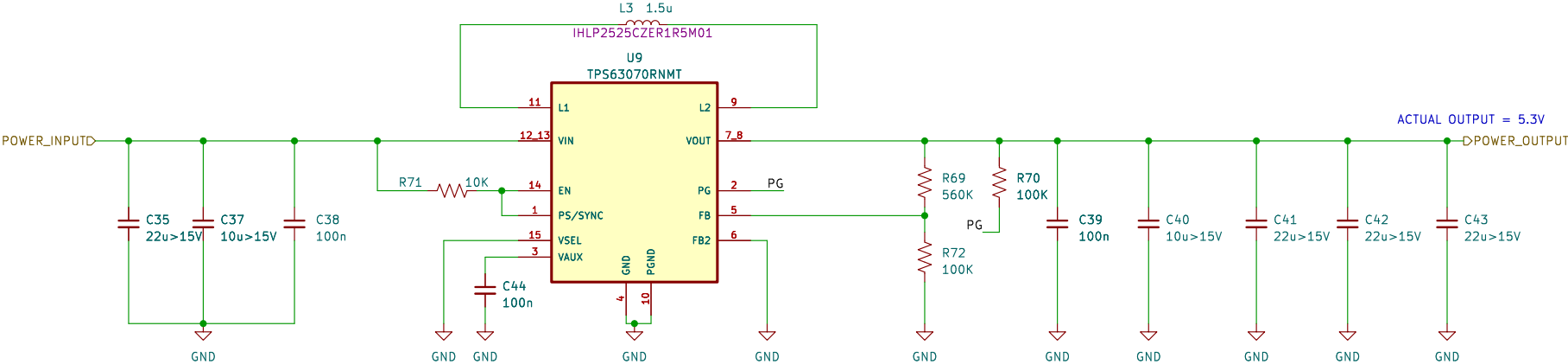
Title:

Size: A4
KiCad E.D.A. kicad 7.0.2

Date:

Rev:
Id: 14/17

BUCK BOOST CONVERTER 5V 1.5 A OUTPUT



Sheet: /BUCK_BOOST_CONVERTER_TPS63070_5V/
File: BUCK_BOOST_CONVERTER_TPS63070_5V.kicad_sch

Title:

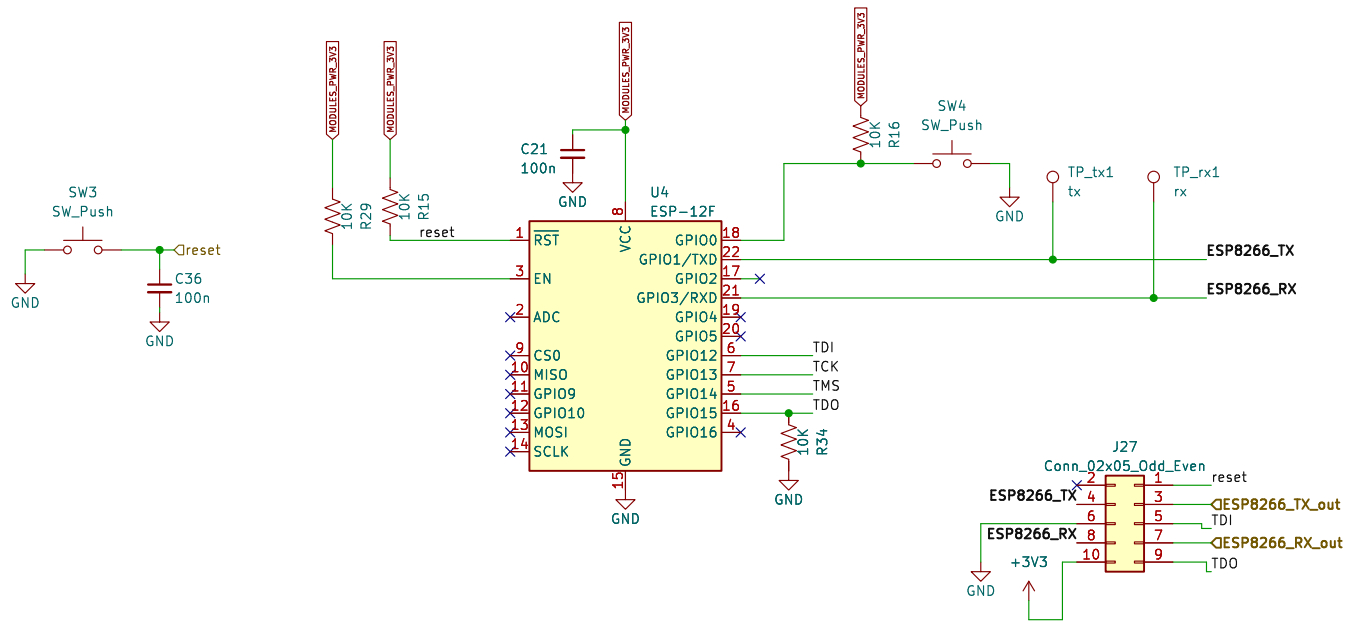
Size: A4

Date:

KiCad E.D.A. kicad 7.0.2

Rev:

Id: 16/17



Sheet: /RP2040TR7_MCU/ESP-12F_wifi_module/
File: ESP-12F_wifi_module.kicad_sch

Title:

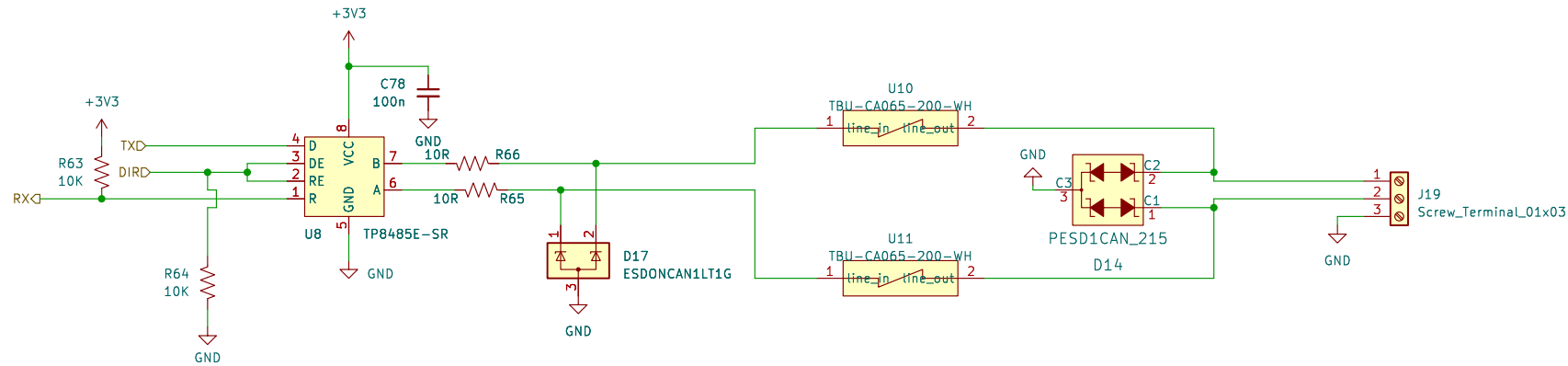
Size: A4

Date:

KiCad E.D.A. kicad 7.0.2

Rev:

Id: 16/17



Sheet: /UART_TO_RS485_SHIELDED/
File: UART_TO_RS485_SHIELDED.kicad_sch

Title:

Size: A4

Date:

KiCad E.D.A. kicad 7.0.2

Rev:

Id: 16/17