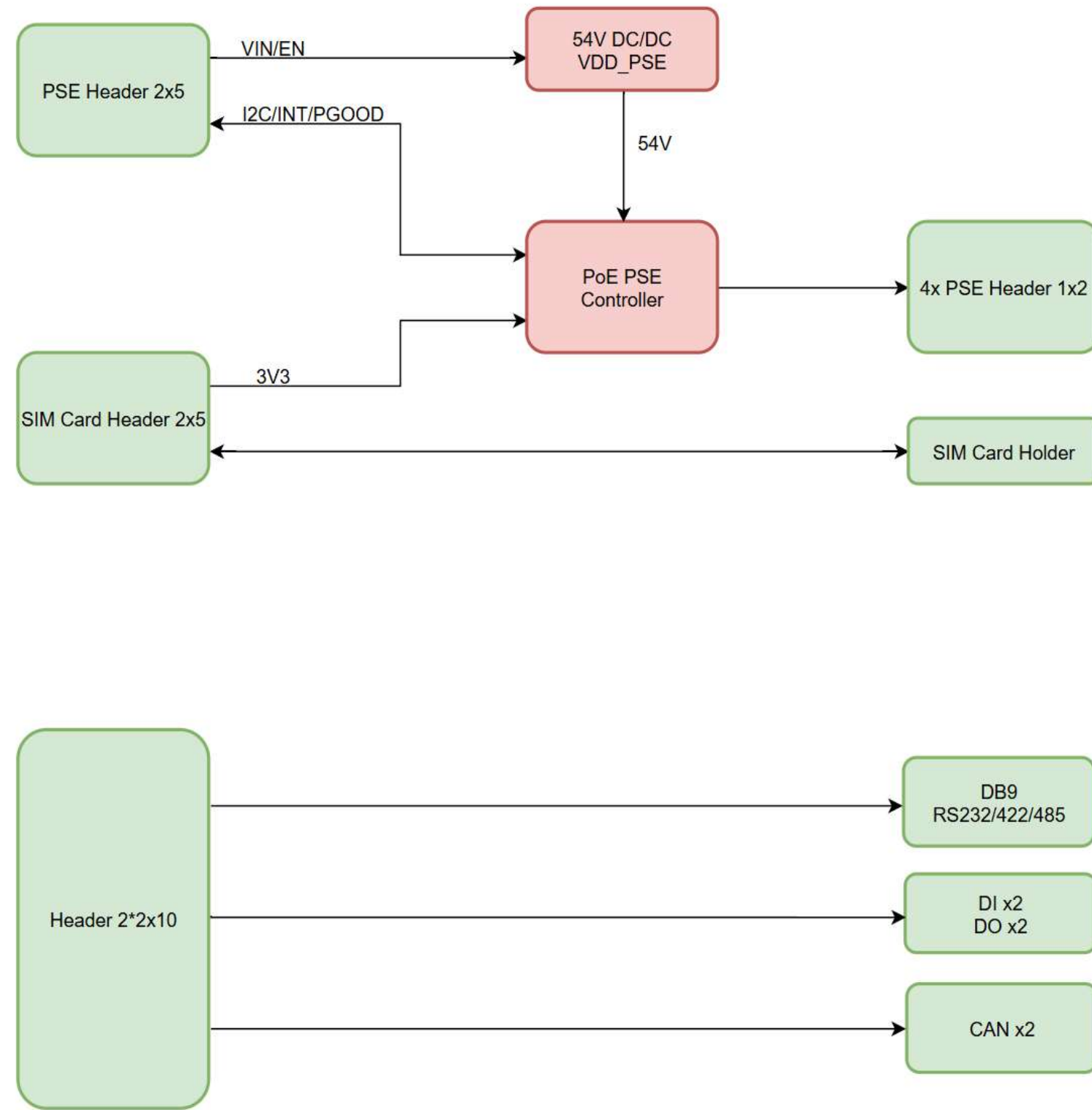


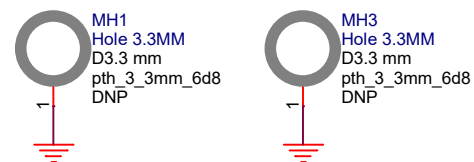
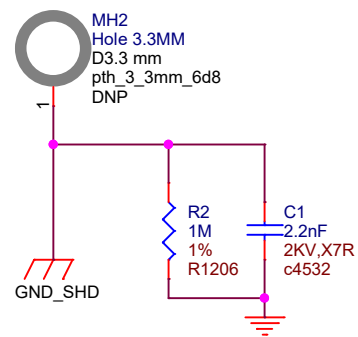
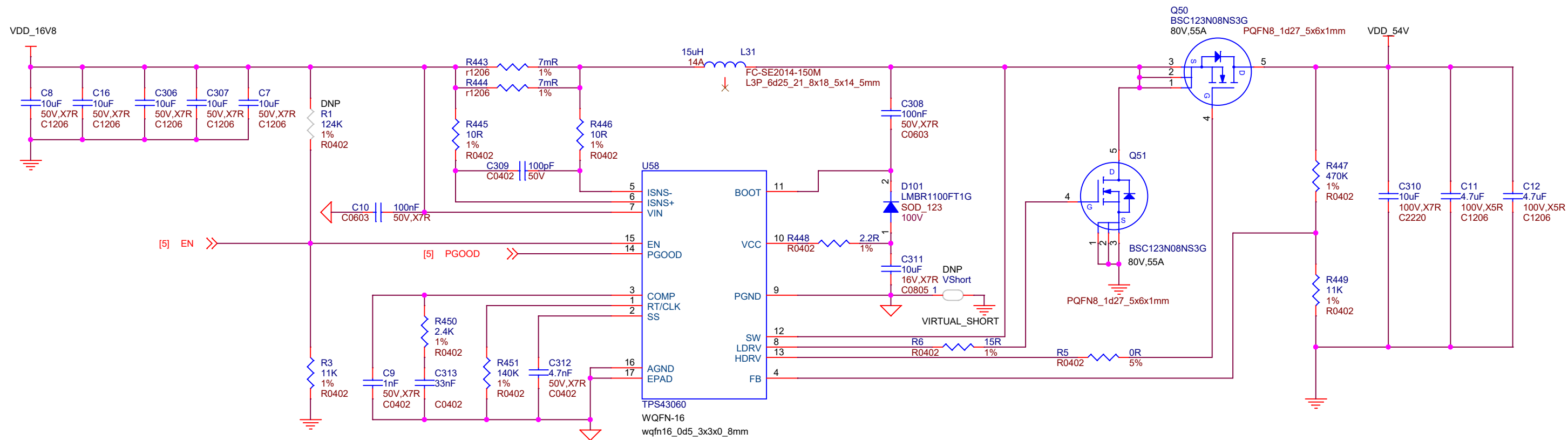
Schematic: reComputer Rugged J401 PSE Board

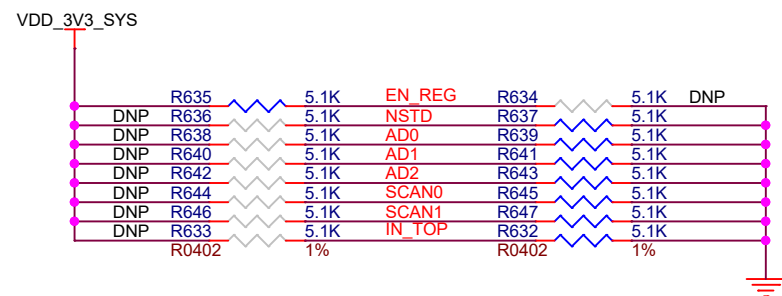
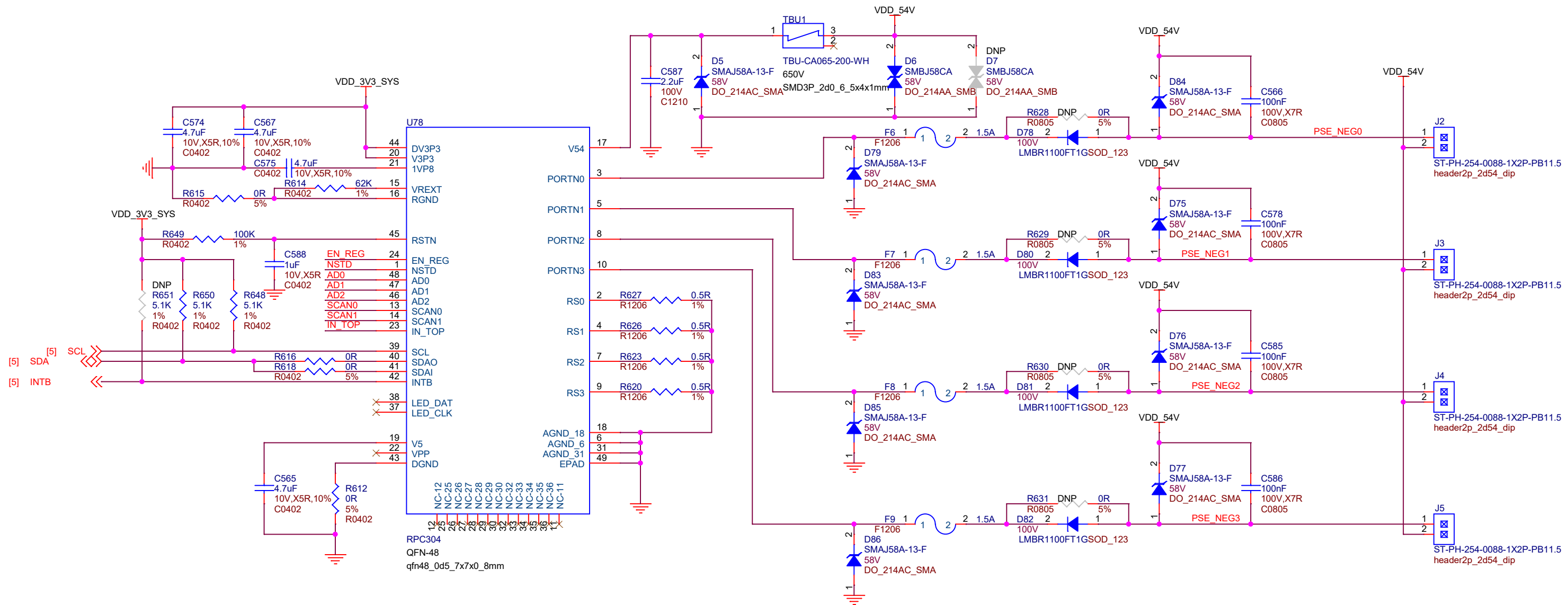
Revision History

SHEET	SHEET NAME
01	Table of Contents
02	Block Diagram
03	PSE_54V
04	PSE Controller
05	SIM Card & Conn
06	DI/DO
07	CAN0, Isolated 5V
08	CAN1,SPI to CAN
09	RS232/422/485
10	LED & Button

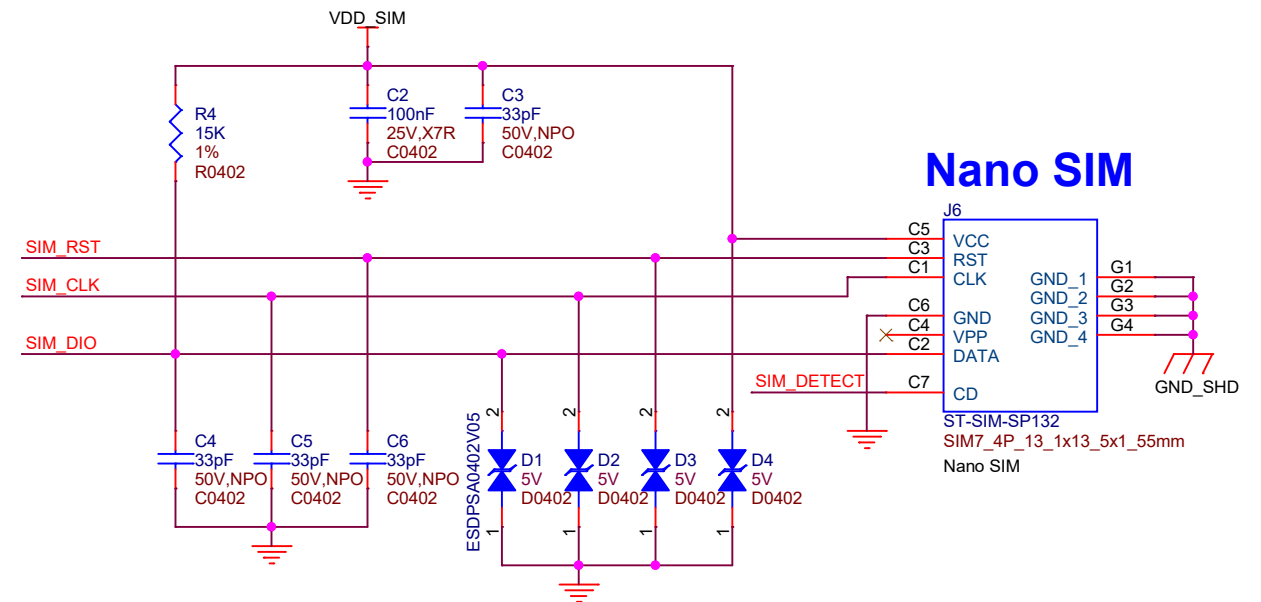
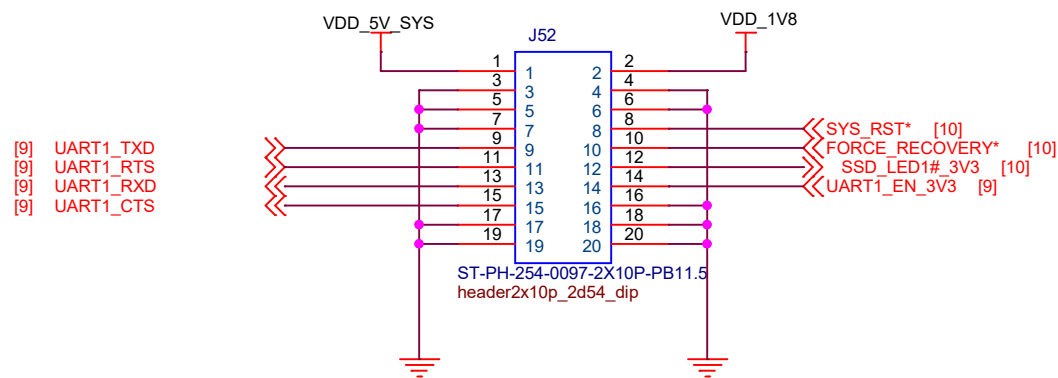
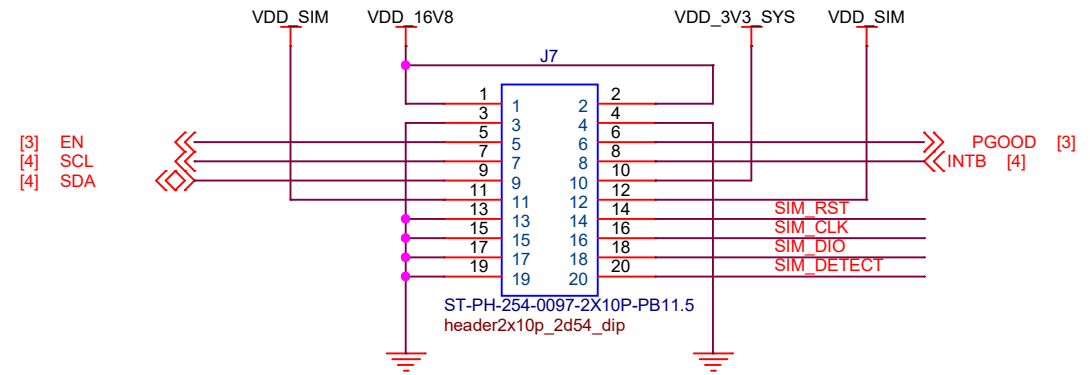
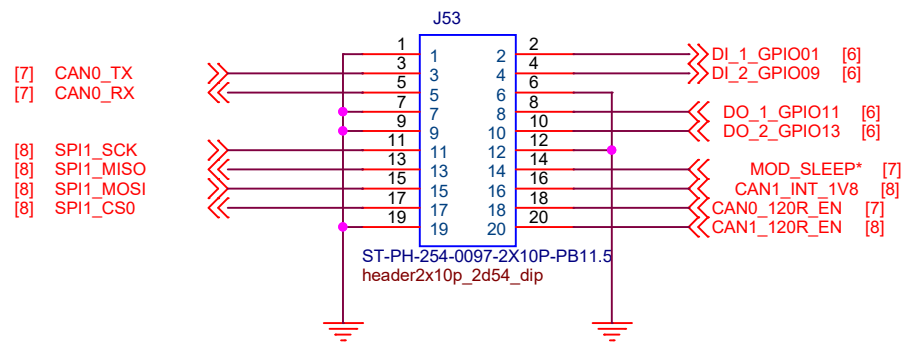
DATE	REVISION	DESCRIPTION
Oct 30, 2025	reComputer Rugged J401 PSE Board V1.0	First Release.
Aug 17, 2025	reComputer Rugged J401 PSE Board V1.1	Optimize PCB: Adjust the positions of screen printing and buttons



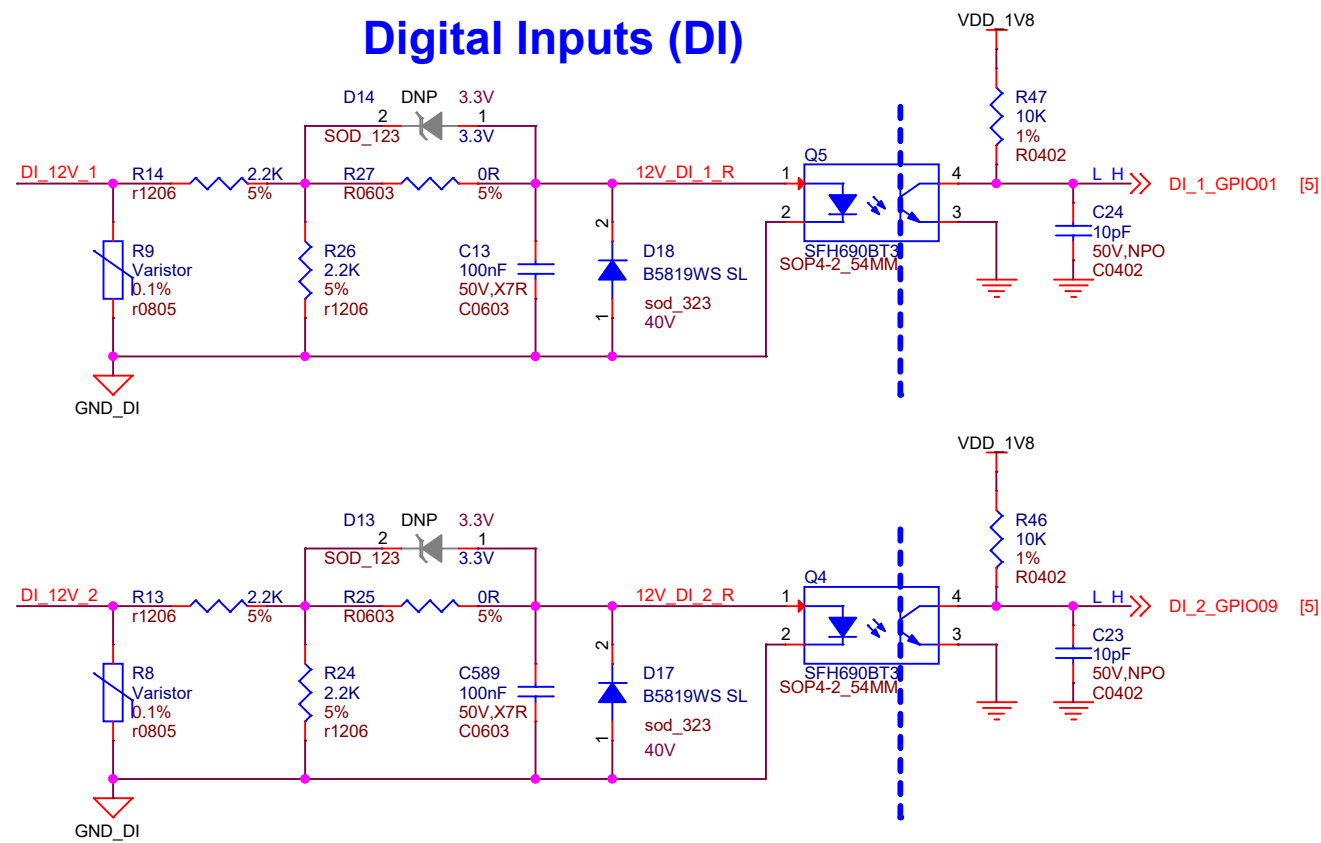




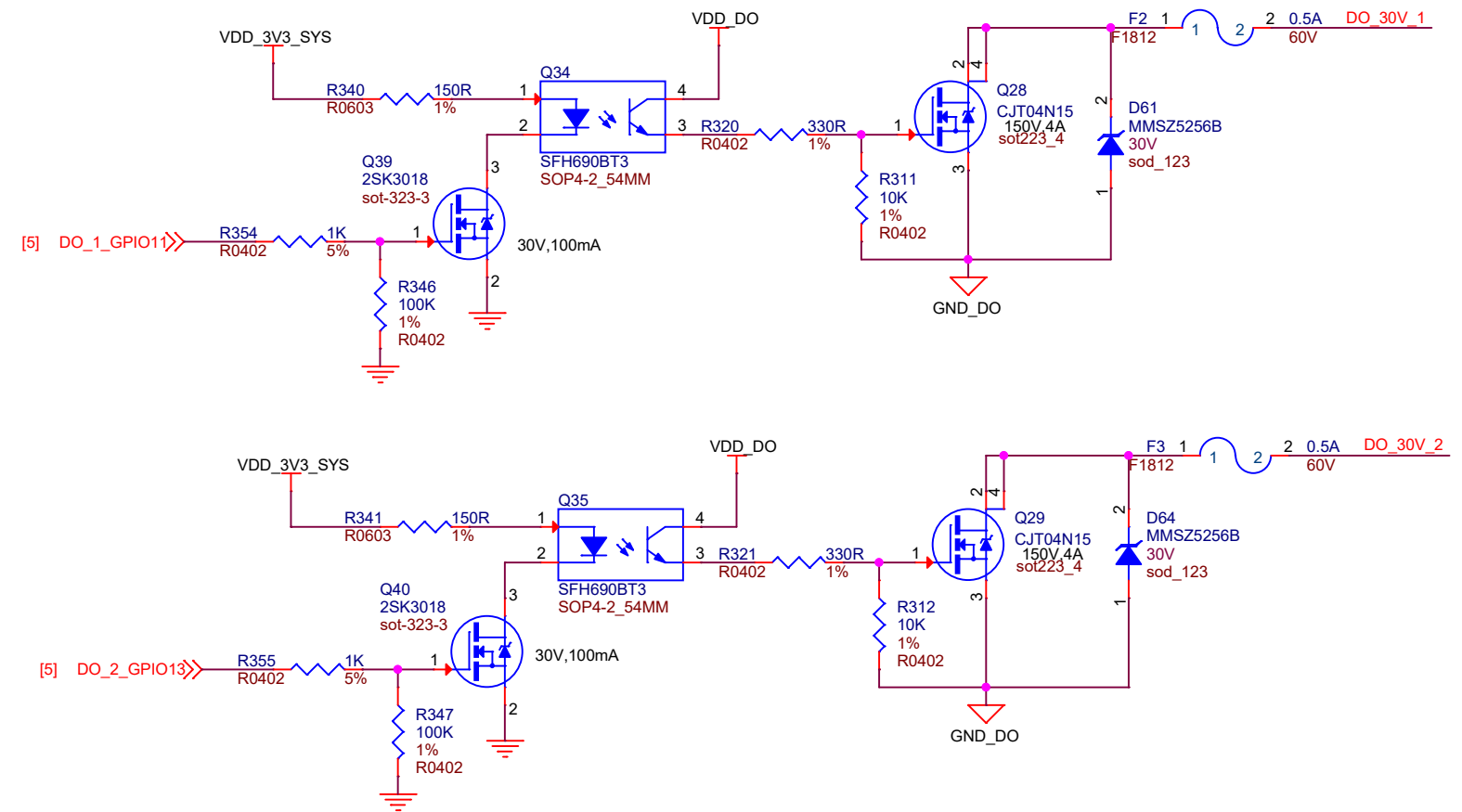
EN REG: 0: Internal LDO-3.3, 1: Disable LDO connect External 3.3 to pin20
 NSTD: 0: Standard, 1: User mode
 AD0~AD2: I2C addr: 1110000b (0x70)
 SCAN<1:0>: 00: Auto Mode, 01: Manual, 10: Diagnostic, 11: Scan



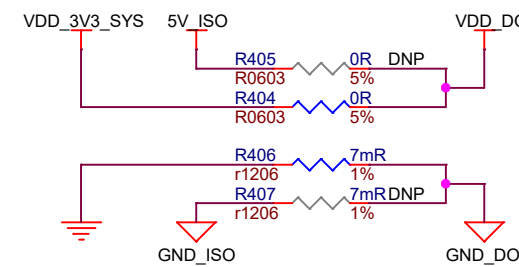
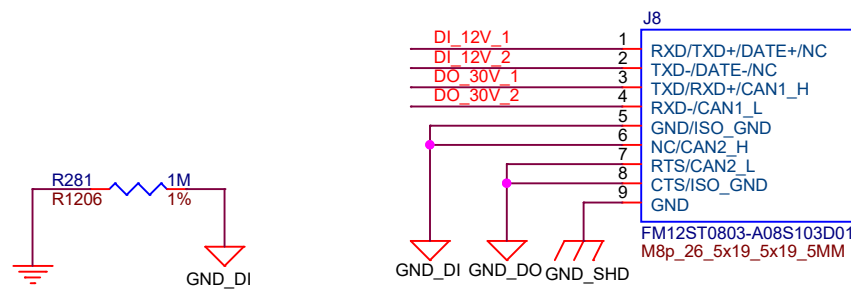
Digital Inputs (DI)



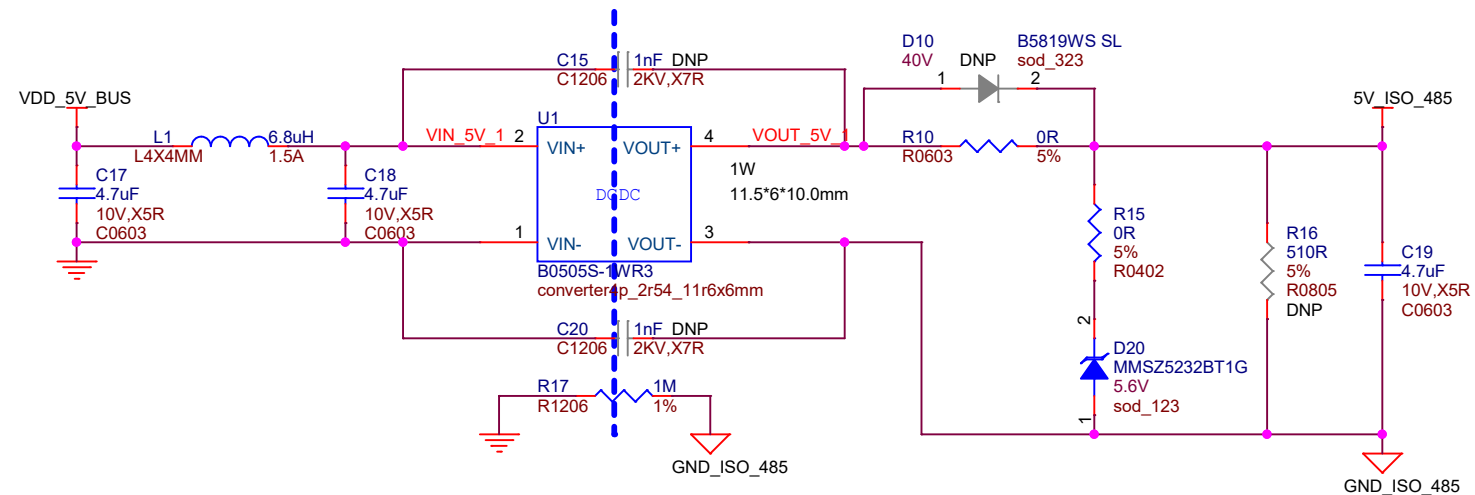
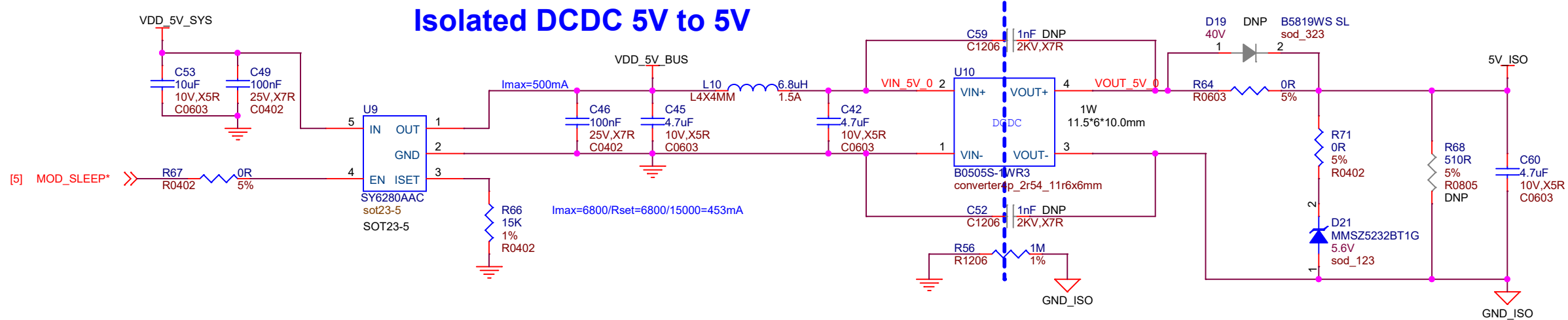
Digital Outputs (DO) rated 30V/0.2A



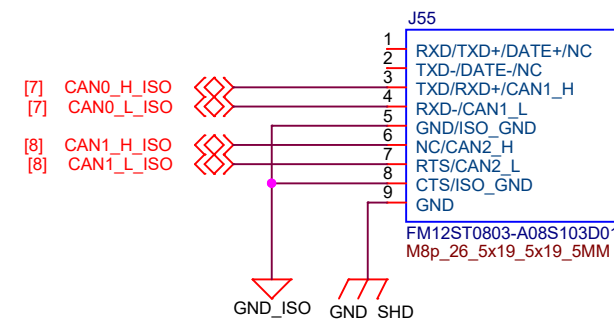
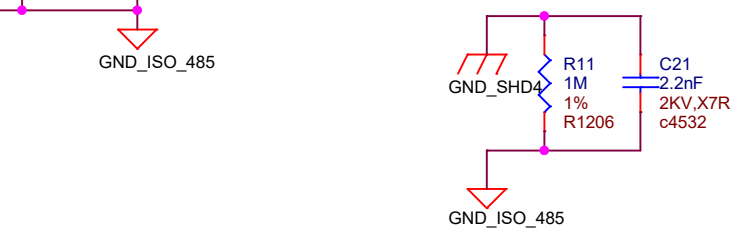
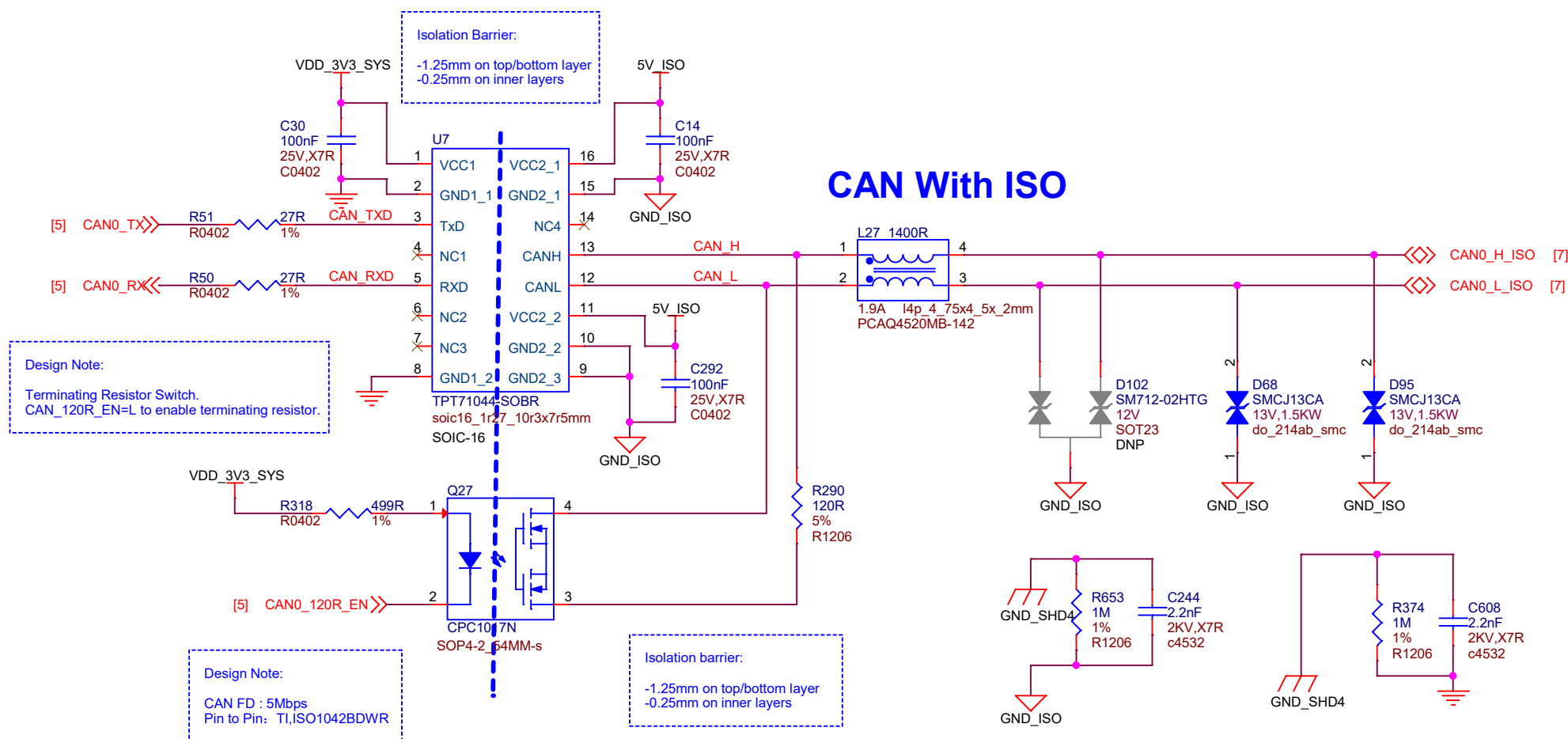
DI & DO

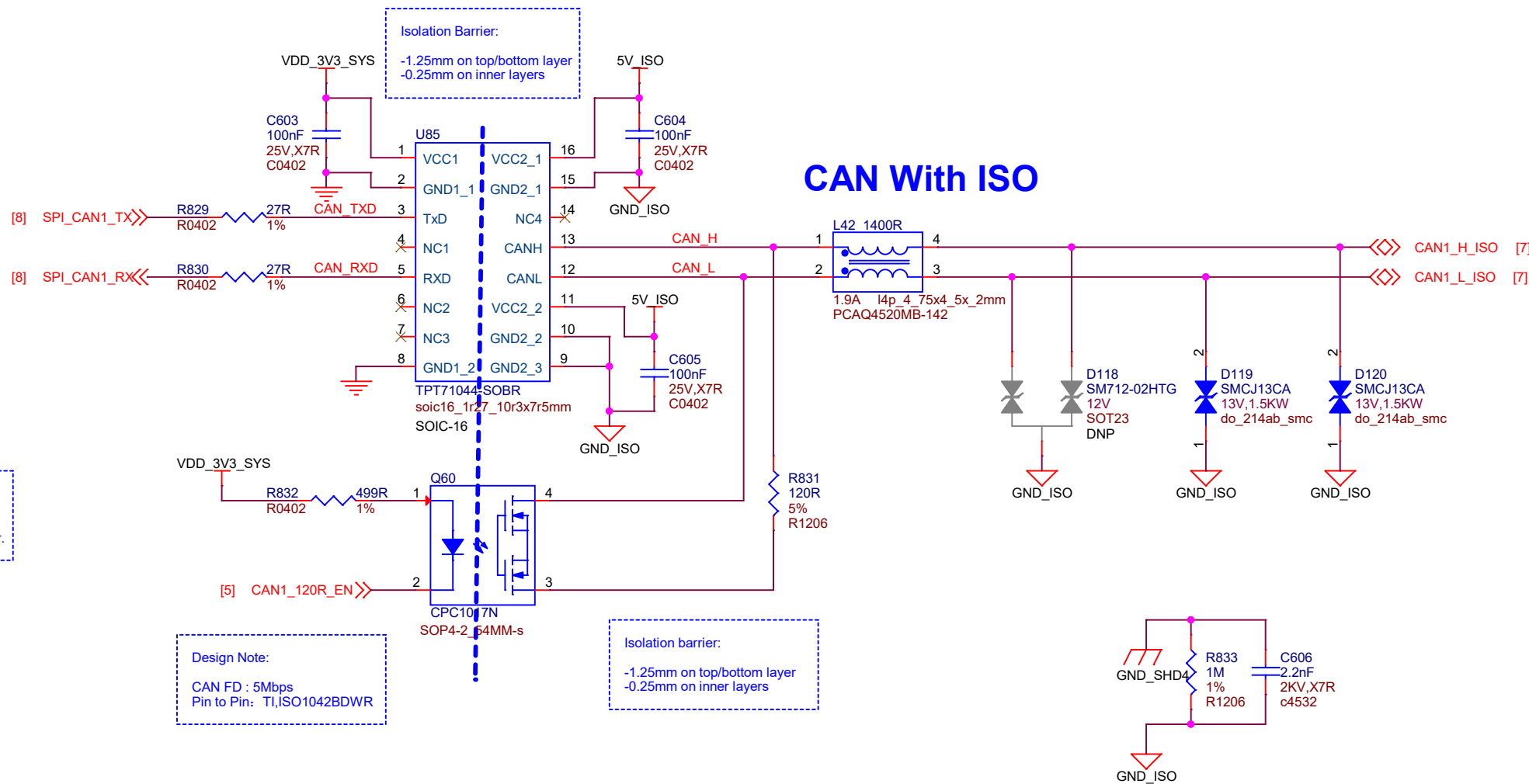
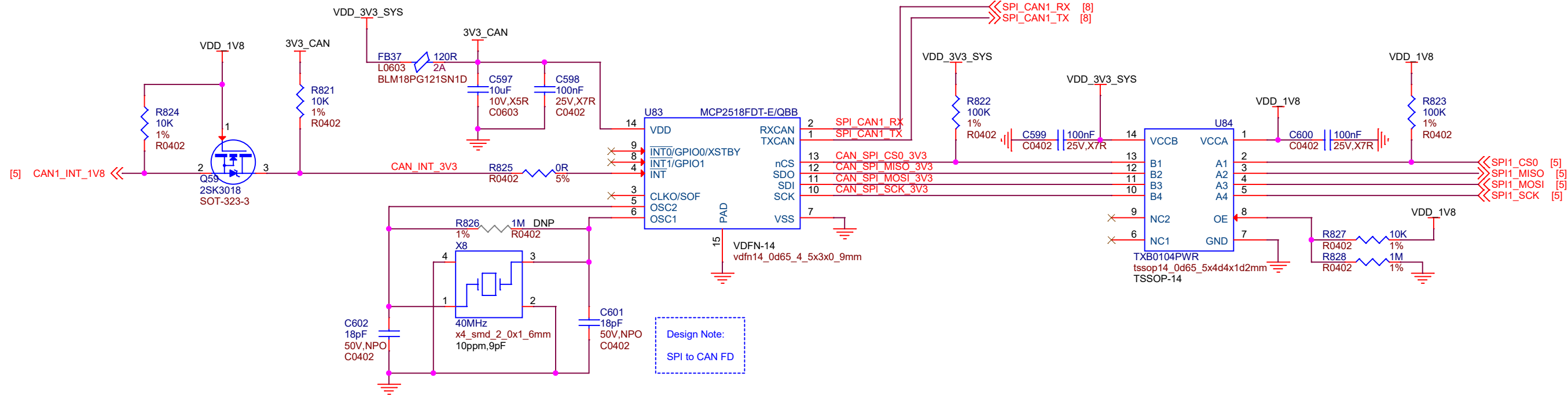


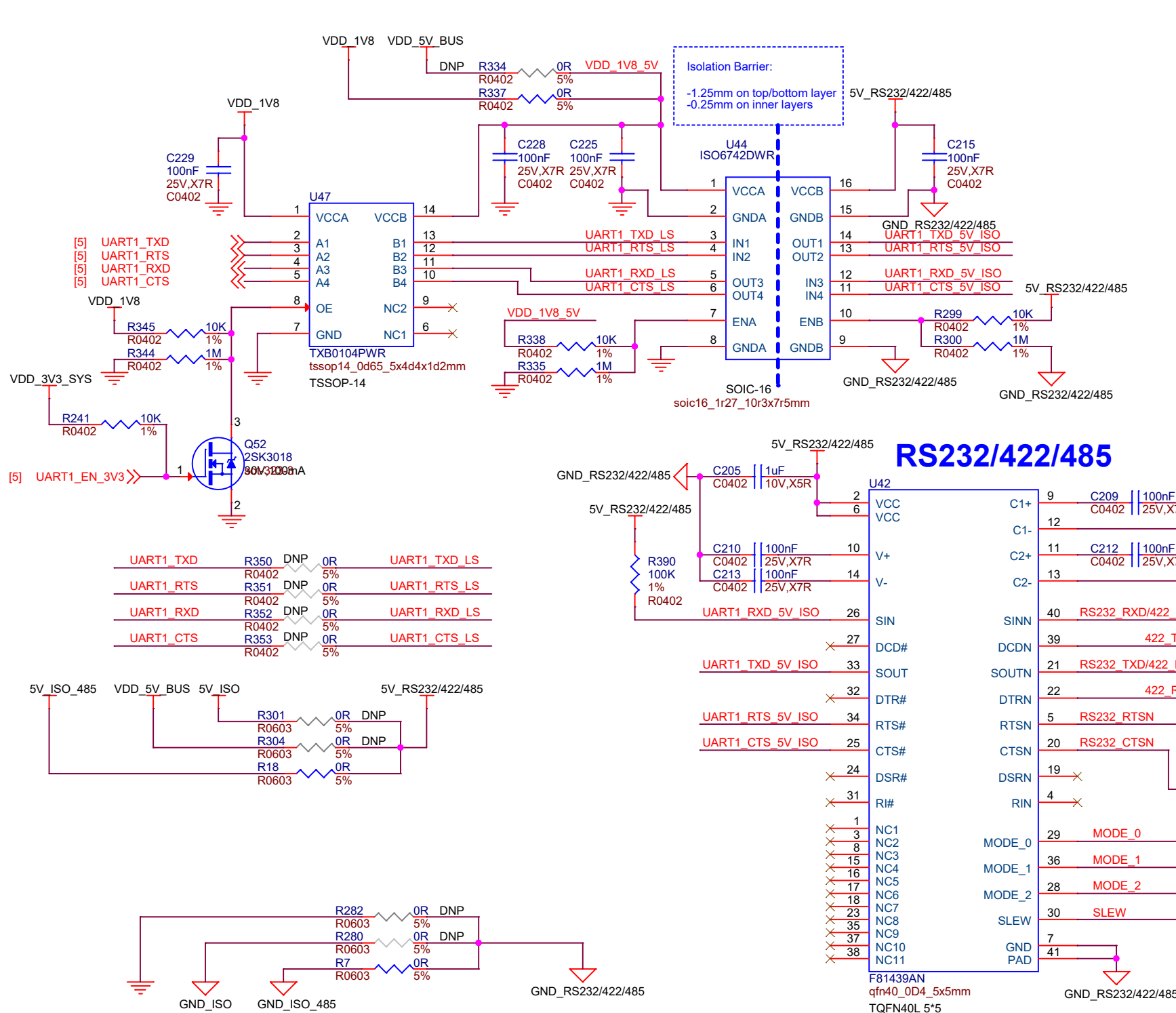
Isolated DCDC 5V to 5V



CAN With ISO







RS232/422/485

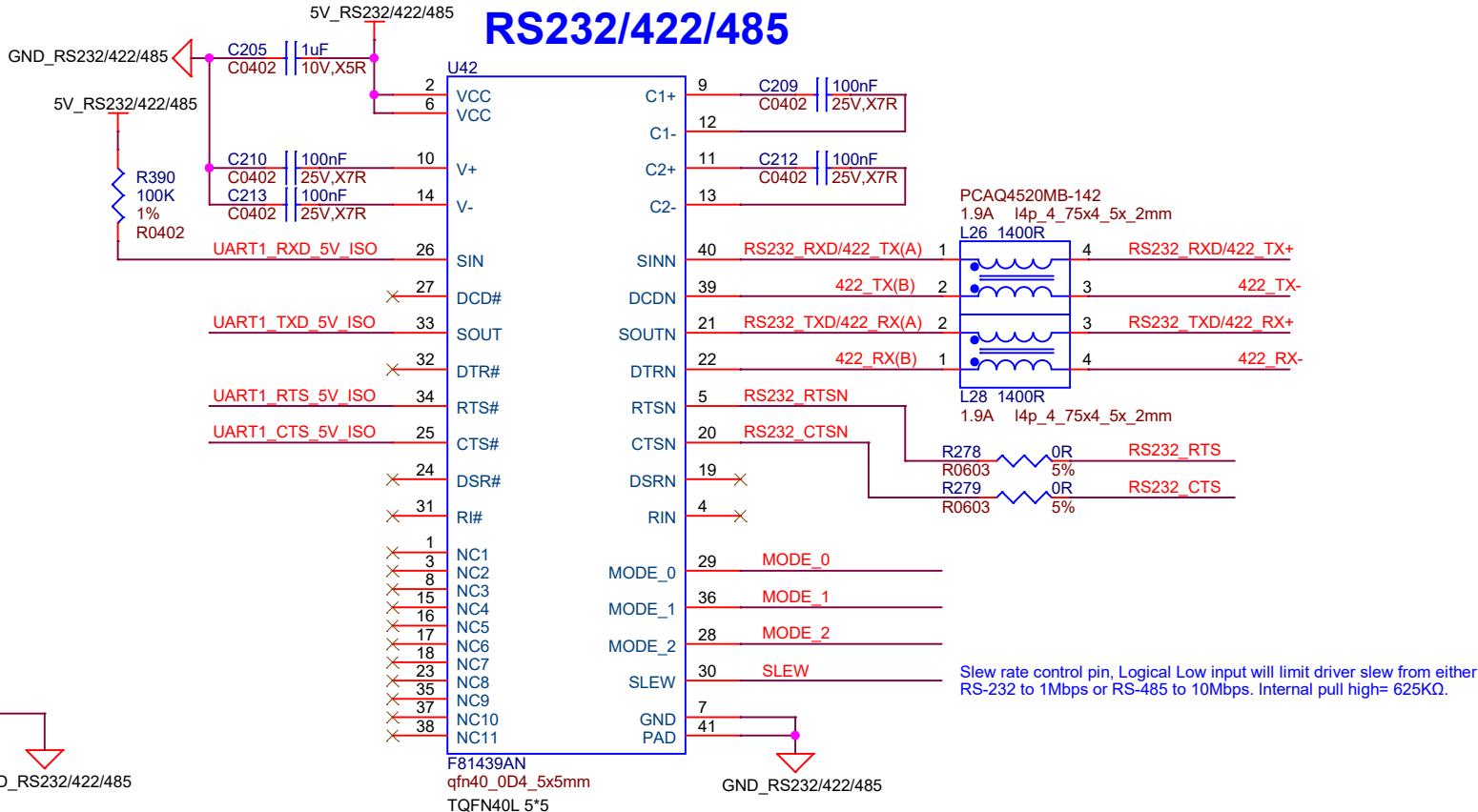
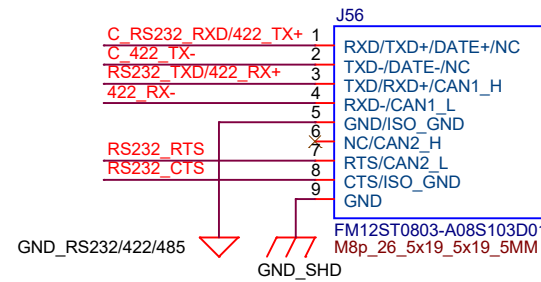
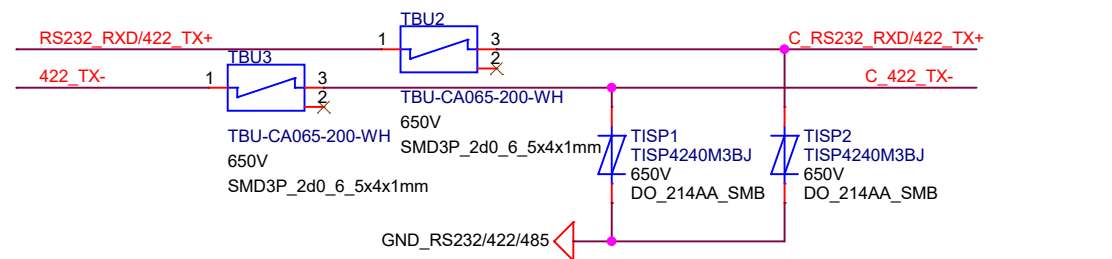
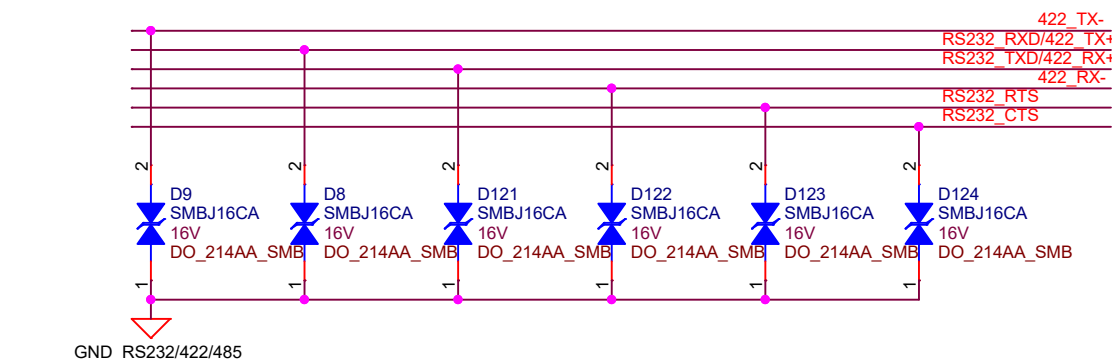
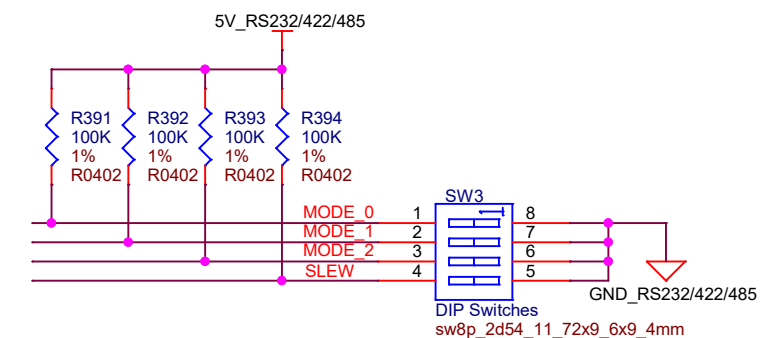


TABLE 1: Mode Select Configuration for F81439

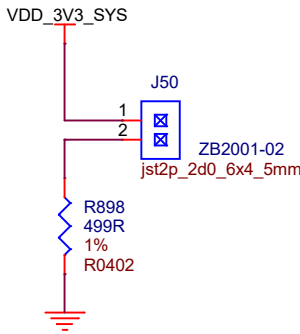
Pin 29 MODE_0	Pin 36 MODE_1	Pin28 MODE_2	Mode	Status
0	0	0	RS-422 Full Duplex	1T/1R RS-422
0	0	1	Pure RS-232	3T/5R RS-232.
0	1	0	RS-485 Half Duplex	1T/1R RS-485 ,TX ENABLE Low Active
0	1	1	RS-485 Half Duplex	1T/1R RS-485 ,TX ENABLE High Active
1	0	0	RS-422 Full Duplex	1T/1R RS-422 with termination resistor
1	0	1	Pure RS-232	1T/1R RS-232 co-exists with RS485 application without the need for the bus switch IC (for special usage).
1	1	0	RS-485 Half Duplex	1T/1R RS-485 with termination resistor TX ENABLE Low Active
1	1	1	Low Power Shutdown	All I/O pins are High Impedance



MODE	001	000/100	010/110
PIN	RS232	RS422	RS485
1	RXD	TXD+	Data+
2		TXD-	Data-
3	TXD	RXD+	
4		RXD-	
5	GND	GND	GND
6			
7	RTS		
8	CTS		
9			



LED & Button



Power LED (Always on)

