PSI-1000/3000 MAIN BOARD

Version 0.1: June-10, 2021

SCHEMATICS PAGE DESCRIPTIONS
P01: COVER
P02: MCU
P03: PWR, ADC, GPIO(ALD IN/OUT), LED
P04: DAC
P05: UART(RS232, RS485), Ethernet

INDICATION LED for SYSTEM POWER

INPUT POWER SUPPLY RATING
+24VDC: INPUT
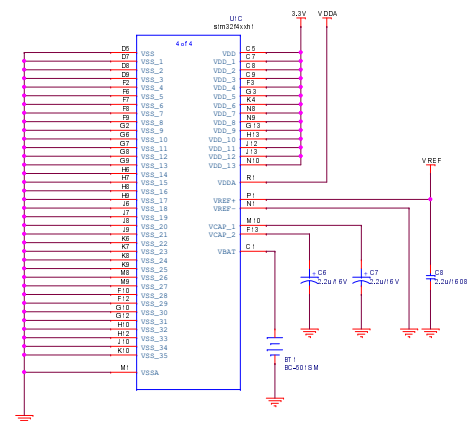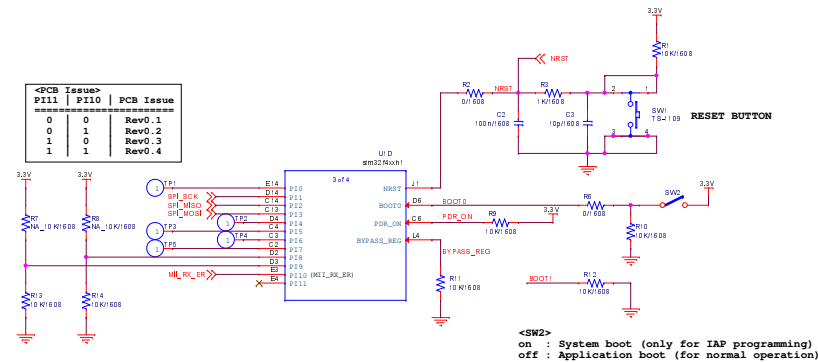+12VDC : 1.2A (Max)
+5VDC : 1.2A (Max)
+3.3VDC : 800mA (Max)

INDICATION LED for BOARD STATUS
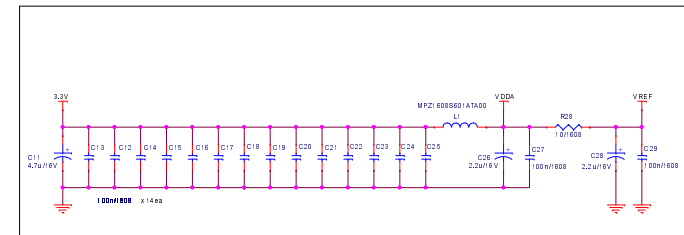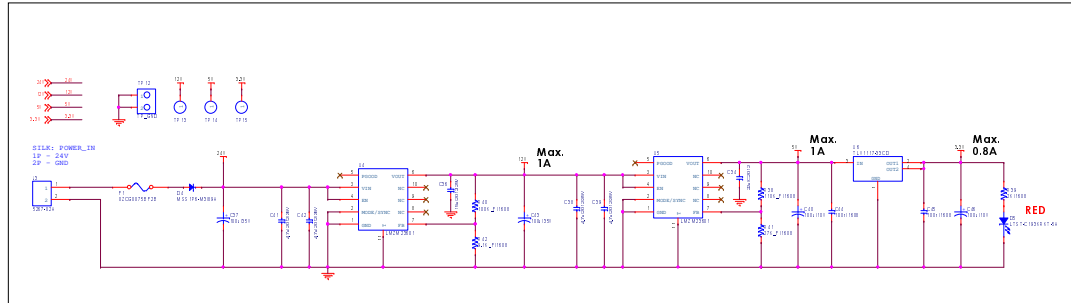D27 : GREEN
D28 : RED
D60 : YELLOW

TOP SILK

ATiK Logo	ATiK Co., Ltd
	ASS'Y: PSI-1000/3000 Main
	P/N : PSI-1000/3000 Main, Rev0.1
	S/N :

MICRO SD CARD

EEPROM (Not Assemble)

JTAG

MCU POWER COUPLING CAPACITOR

RESET BUTTON

<PCB Issue>

PII1	PII0	PCB Issue
0	0	Rev0.1
0	1	Rev0.2
1	0	Rev0.3
1	1	Rev0.4

<SW2>
on : System boot (only for IAP programming)
off : Application boot (for normal operation)

POWER SUPPLY for +5.0V, +3.3V

Internal ADC

LED (External 2-Port)

External ADC

Analog Input (4~20mA)

Analog Input (0~10V, 0~5V)
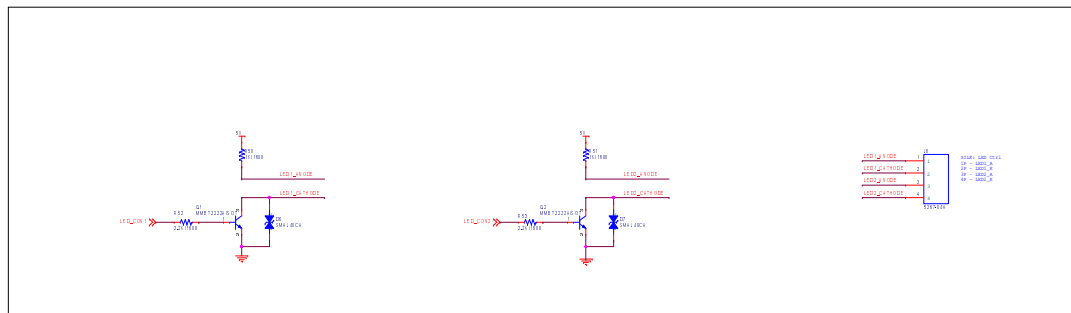
GPIO(Digital Input 8-Port / Output 10-Port)

Digital_INPUT

Digital_OUTPUT
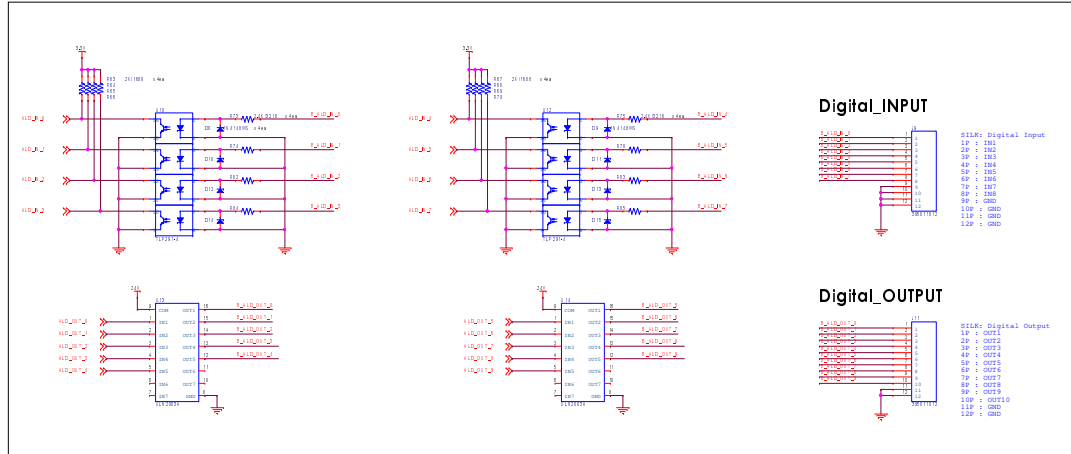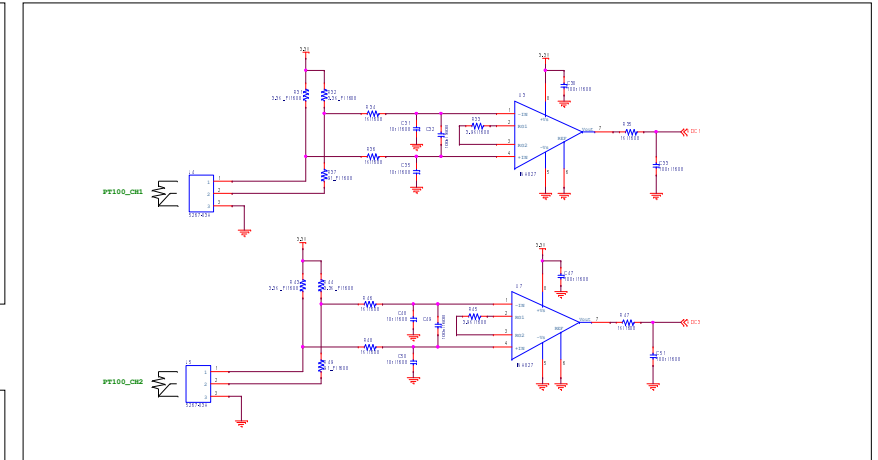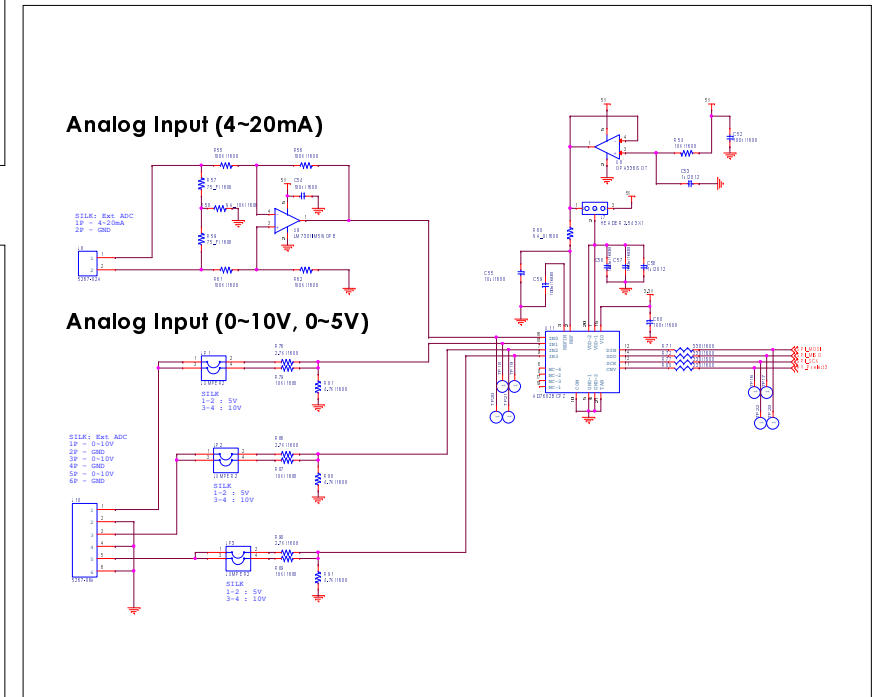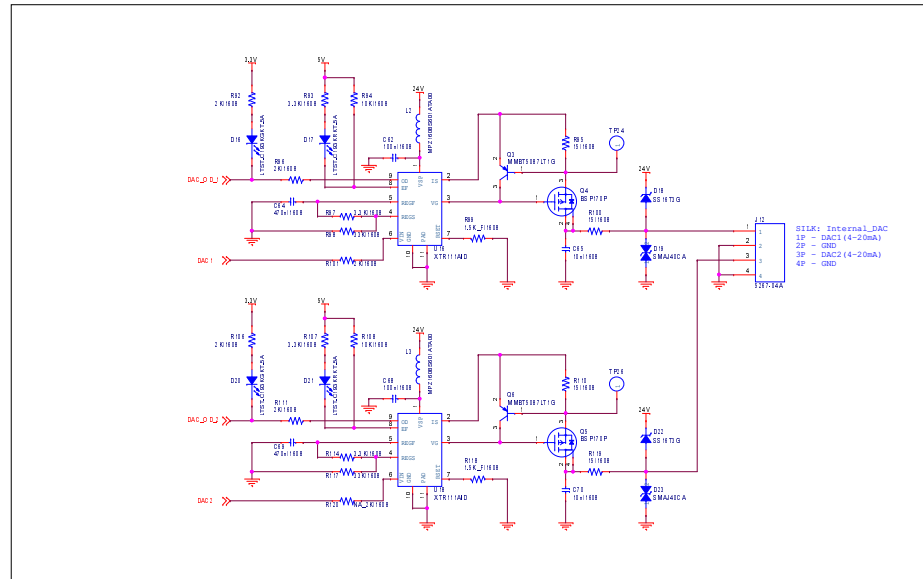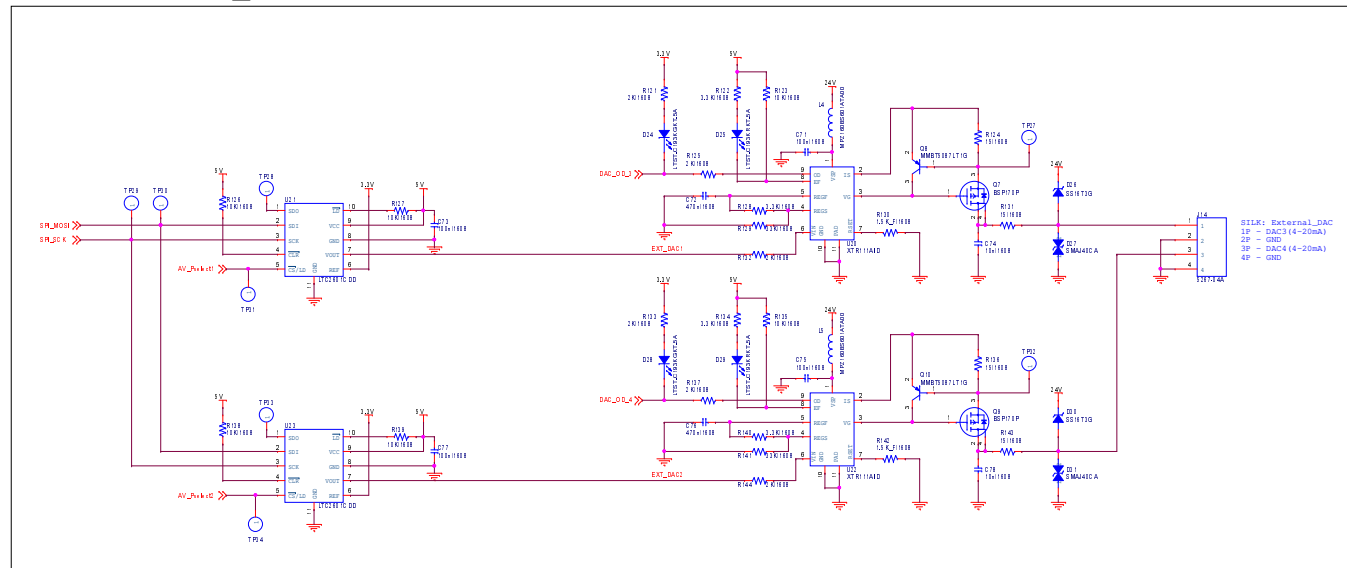
Internal DAC_OUT

Analog Output (0~10V, 0~5V)
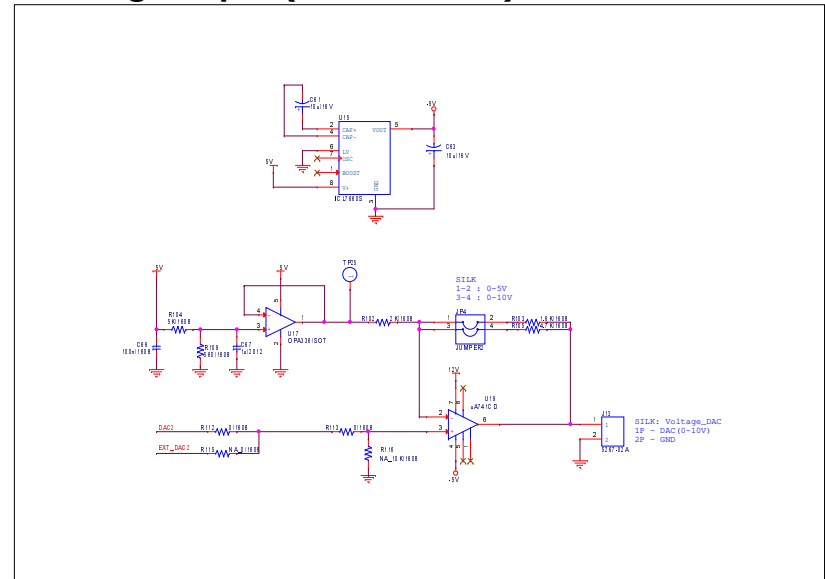
External DAC_OUT

RS232(PC,DEBUG,LCD,RESEVED-4Port), Ethernet

Level translator

level translator
3.3V --> 5V

level translator
3.3V <-- 5V

UART #3

SILK: LCD
1p - 5V
2p - MCU_Rx
3p - MCU_Tx
4p - GND

Ethernet

SILK: PC(Fei-1000)

UART #1

Isolation Barrier

SILK: EXT(PC)
1p - TX
2p - RX
3p - GND

UART #2

Isolation Barrier

SILK: DEBUG
1p - TX
2p - RX
3p - GND

UART #6

JP1 : RS485 termination
1-2 : termination ON
3-4 : termination OFF

SILK: RS485
1P - D-
2P - D+
3P - GND
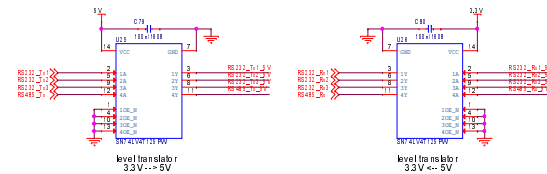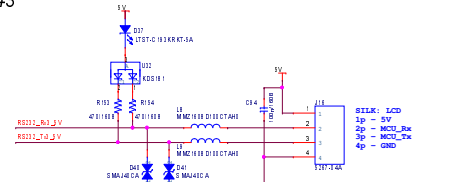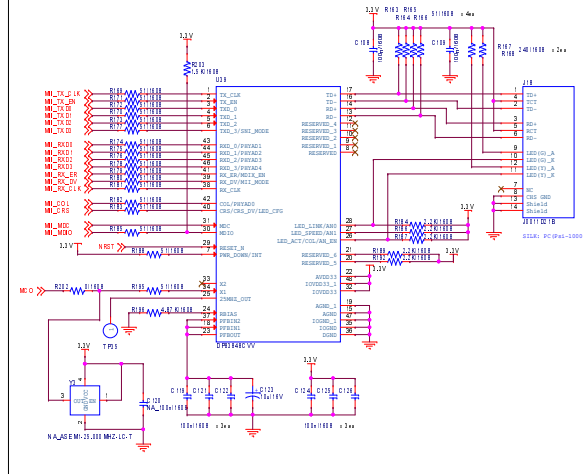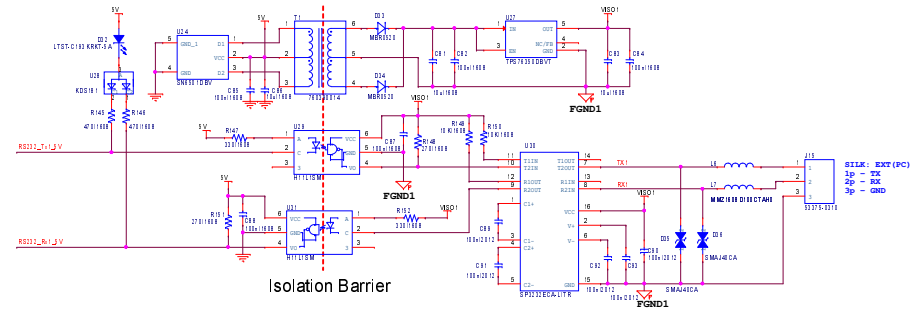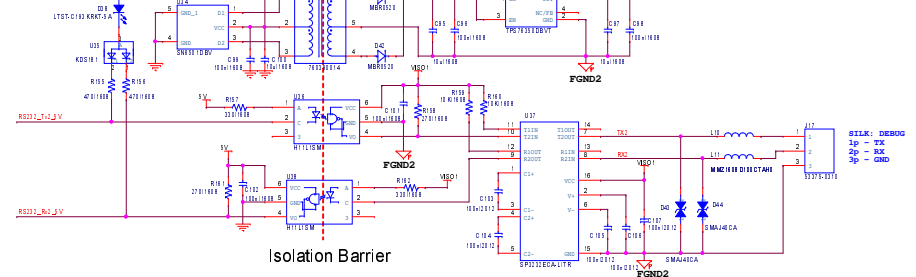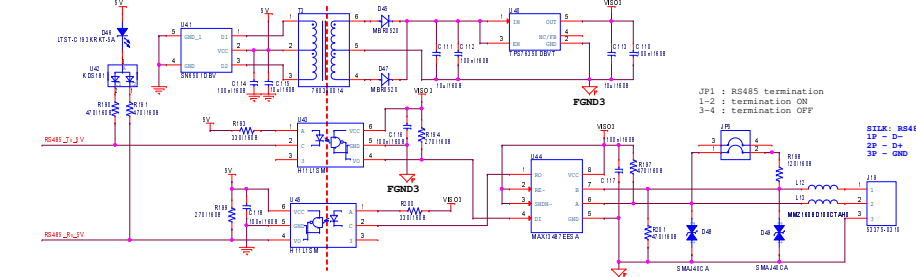
RS485(reserved)

Isolation Barrier