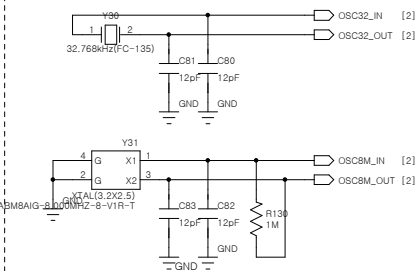
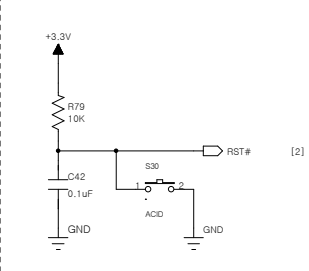


참조

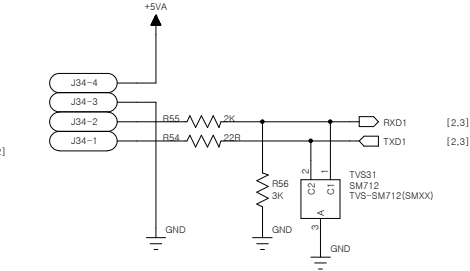
| | | |
|-----------------------------|---------------|-----------------|
| COMPANY: Autoinnotech,.,LTD | | |
| TITLE: 0.FLOW | | Cartctl-v13.sch |
| SIZE: A2 | PN: | |
| DATE: 2025-10-19 | SHEET: 1 OF 6 | |



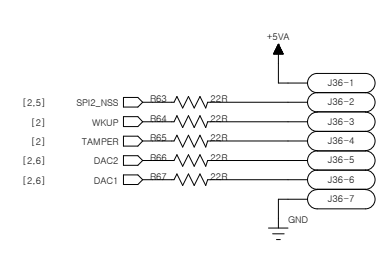
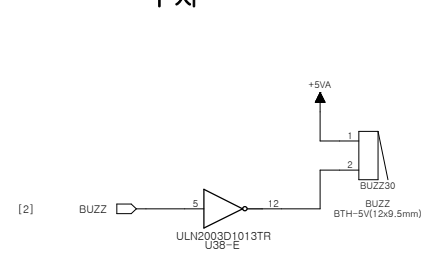
RESET



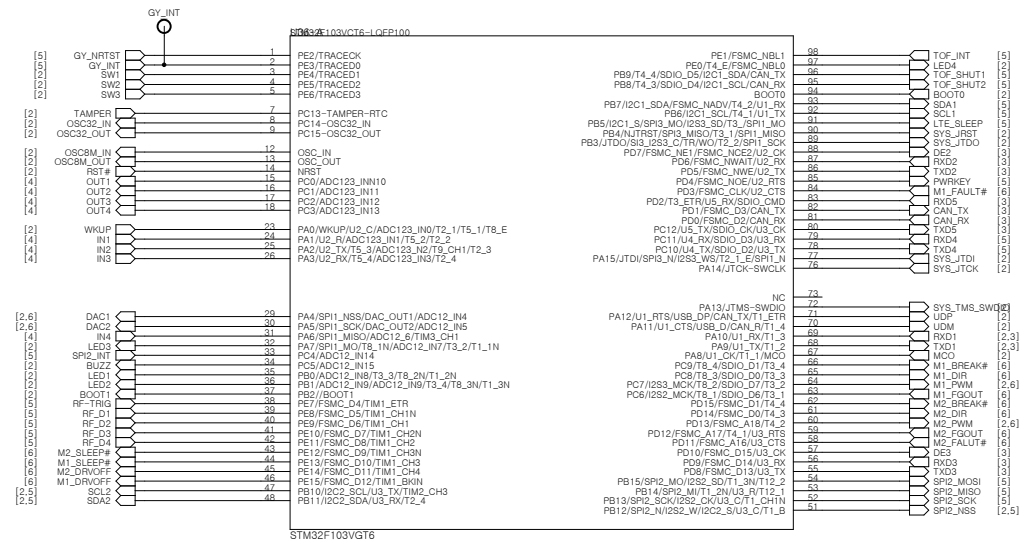
PROG



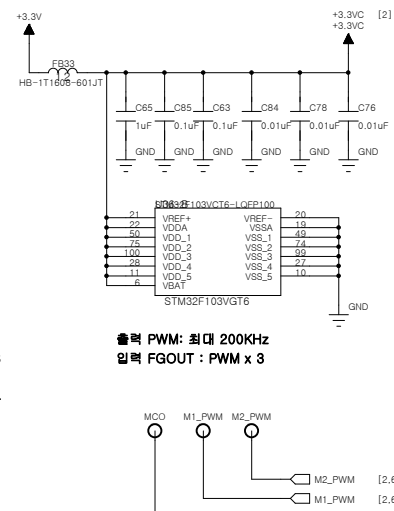
부저



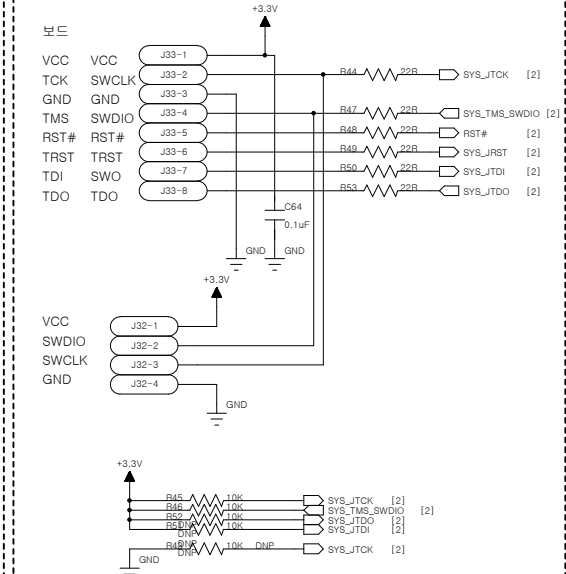
MCU



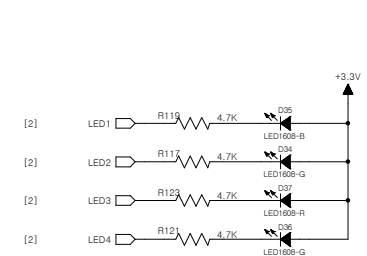
DE2핀으로 대처



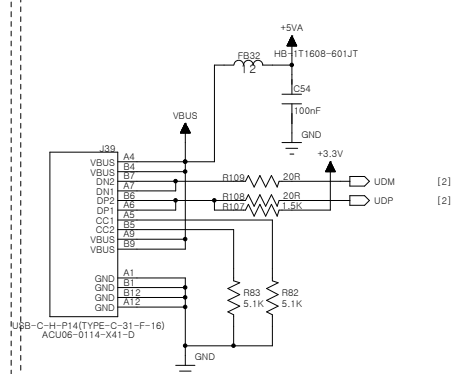
J-LINK



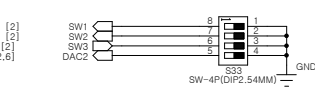
LED



USB



프로그램에서 풀업



DFU Mode

BOOT0 BOOT1

0 X

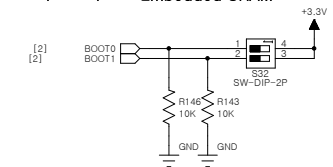
$$\begin{array}{cc} 1 & 0 \\ 1 & 1 \end{array}$$

11

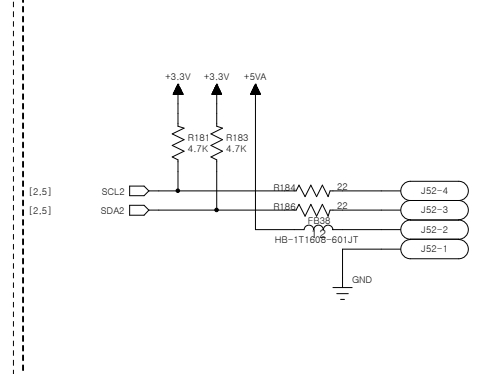
Main Flash

System Memory(ST 부터로더 UART 등으로 펌웨어 실행 Embedded SRAM

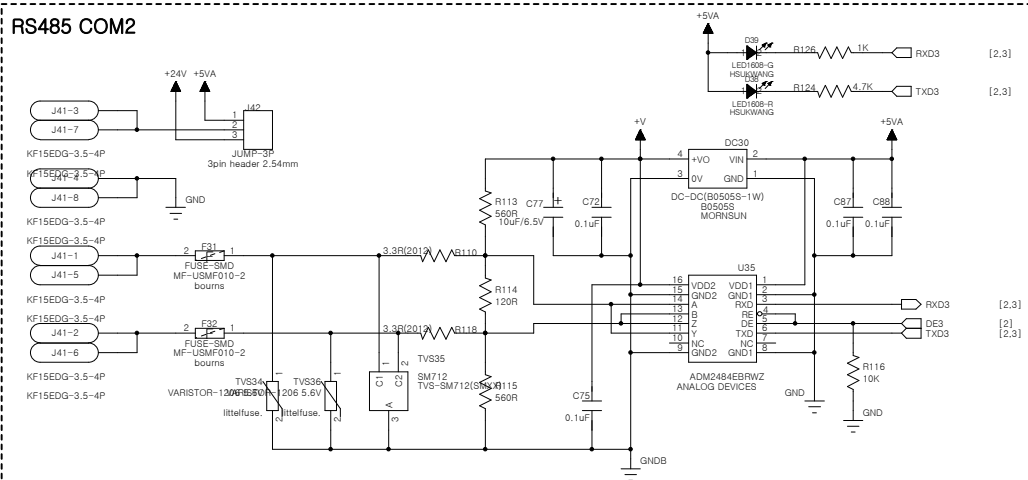
Embedded SRAM



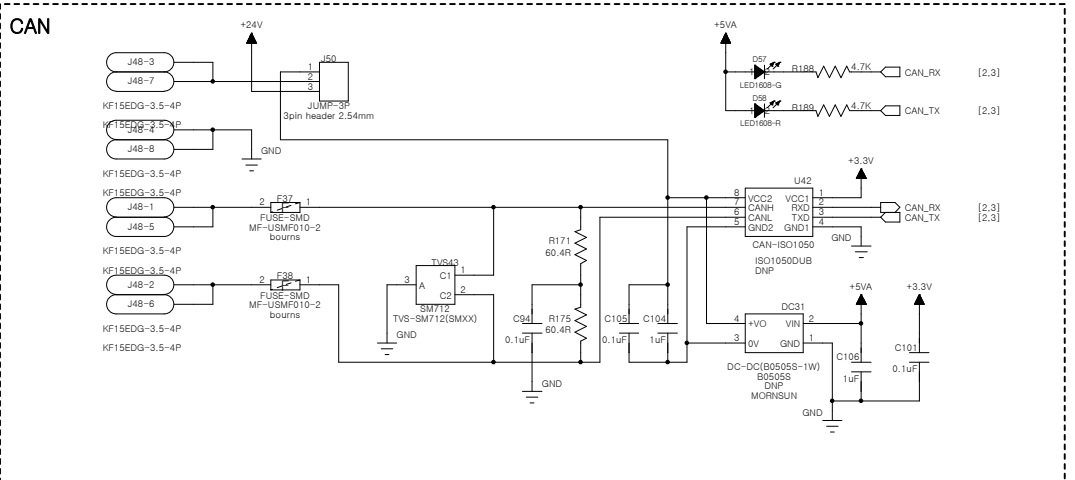
12C



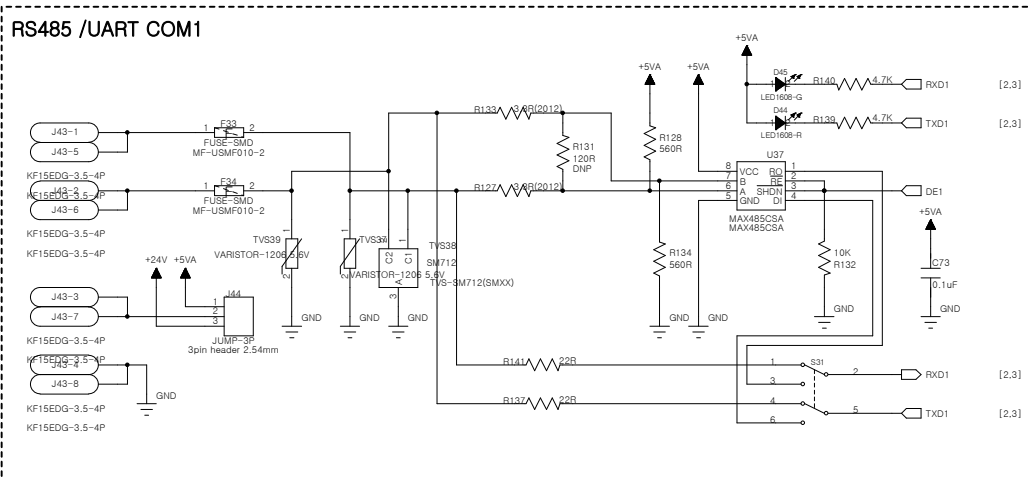
RS485 COM2



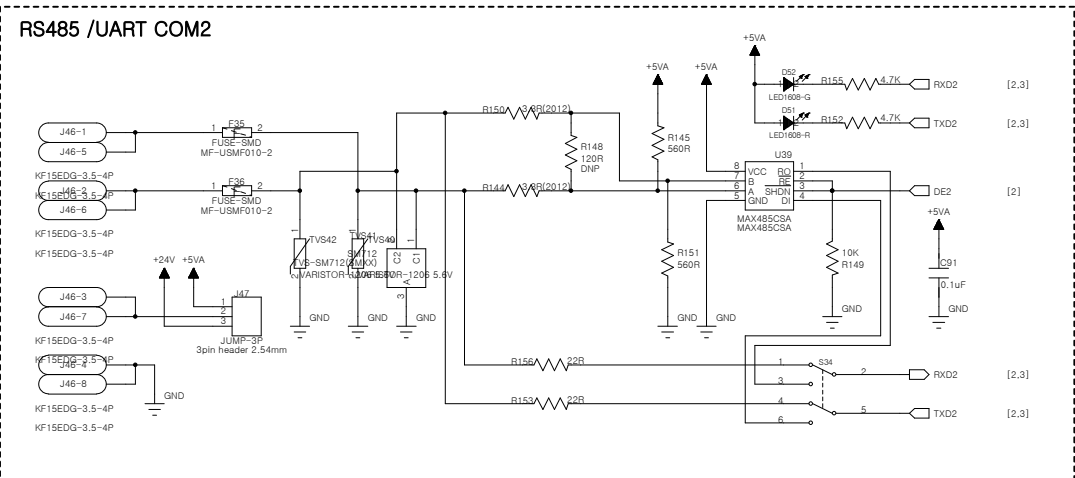
CAN



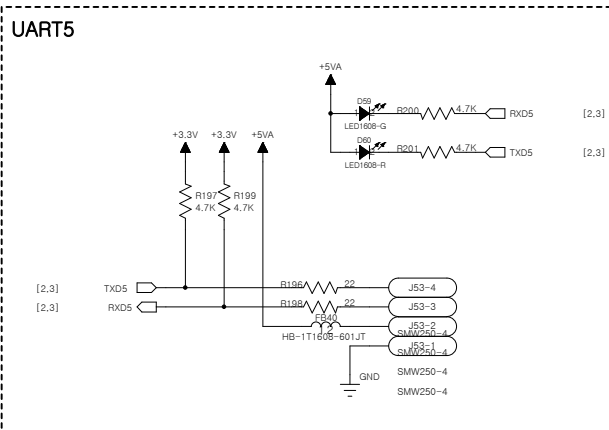
RS485 /UART COM1



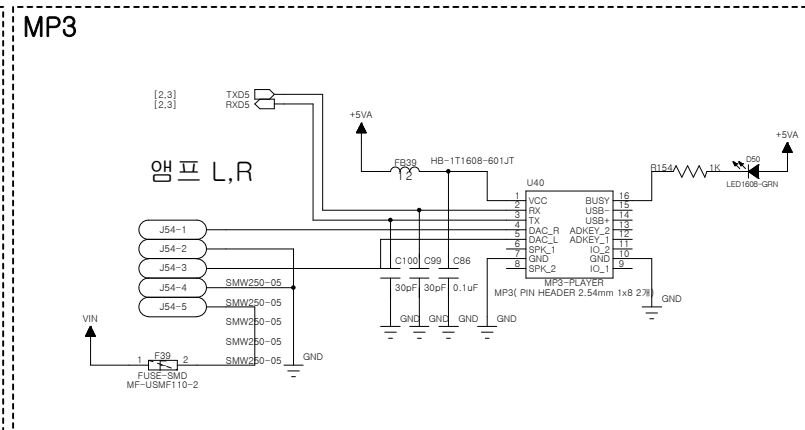
RS485 /UART COM2



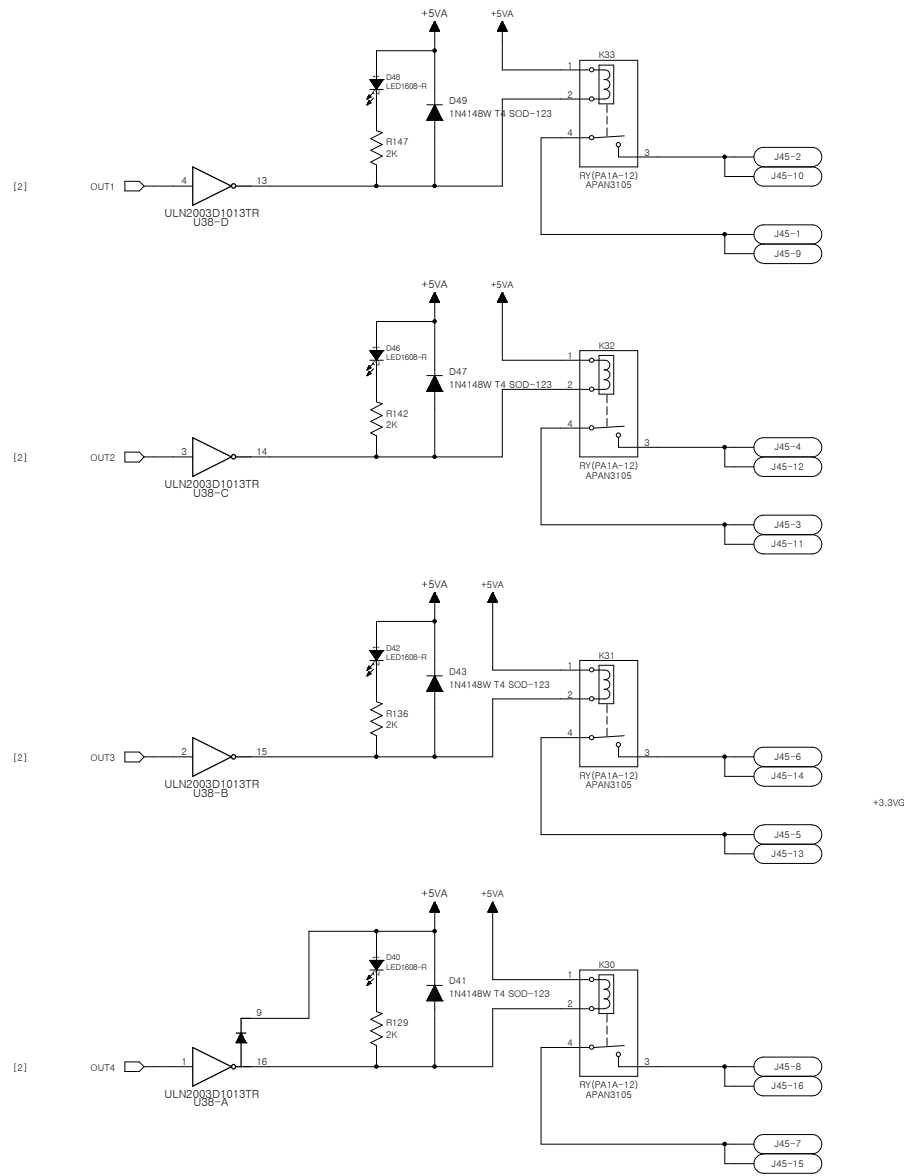
UART5



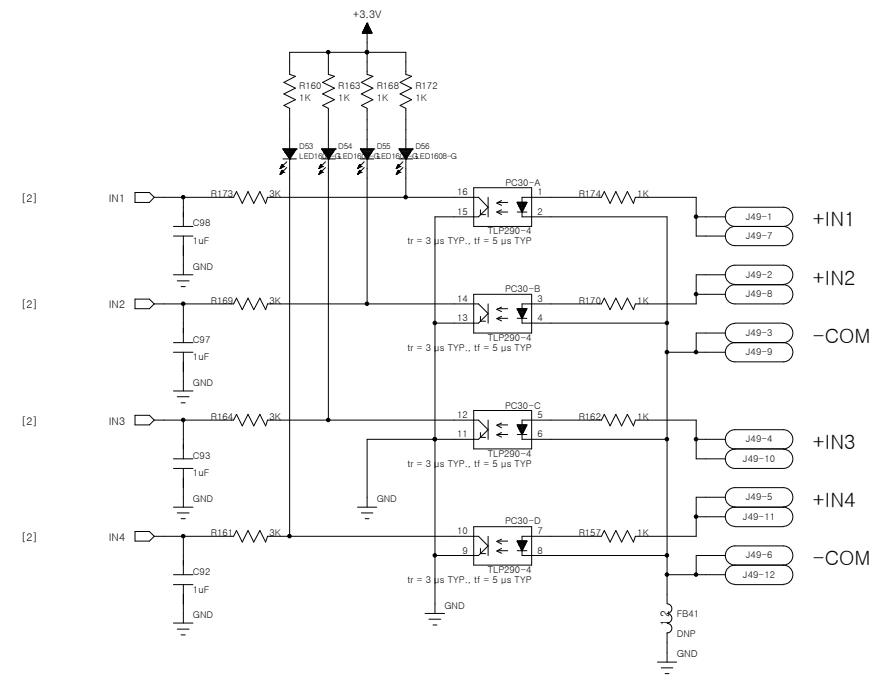
MP3



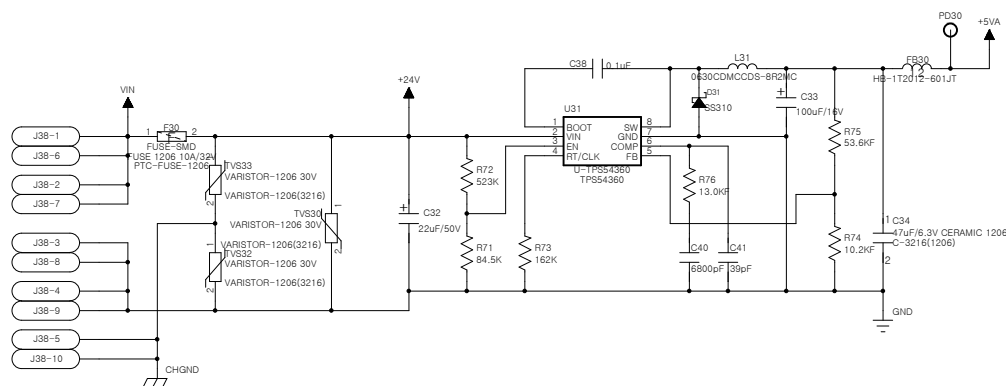
OUT



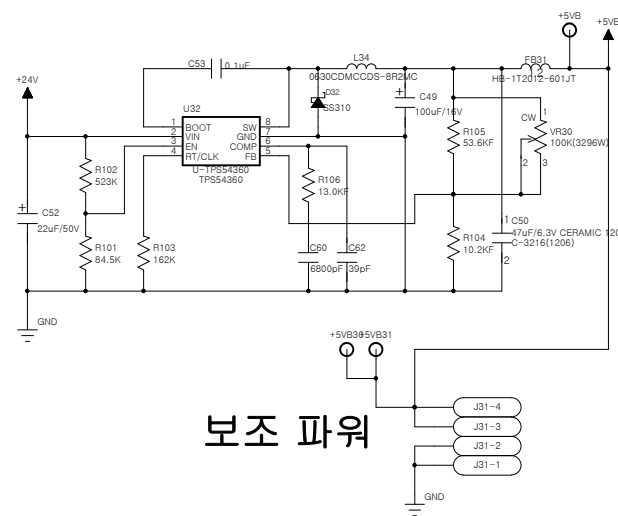
INPUT



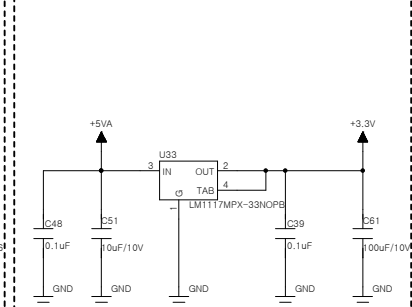
POWER 5V



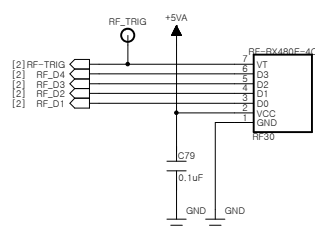
POWER 5V



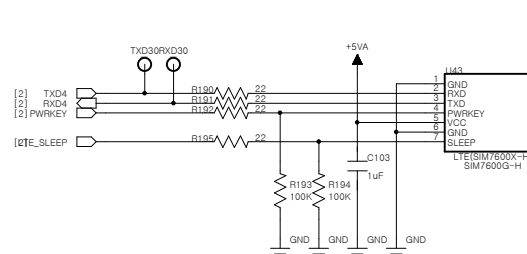
POWER 3.3V



RF

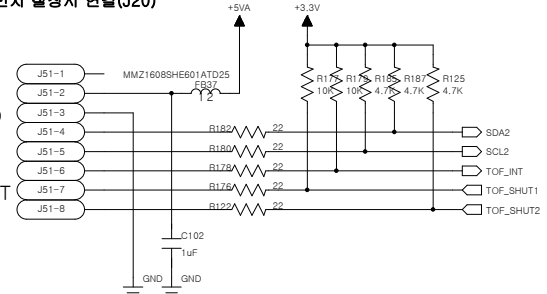


LTE(SIM7600G-H)



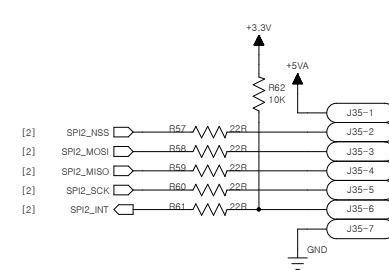
ToF(거리센서)

ToF 번지 설정시 연결(J20)

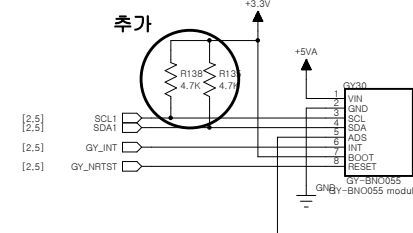
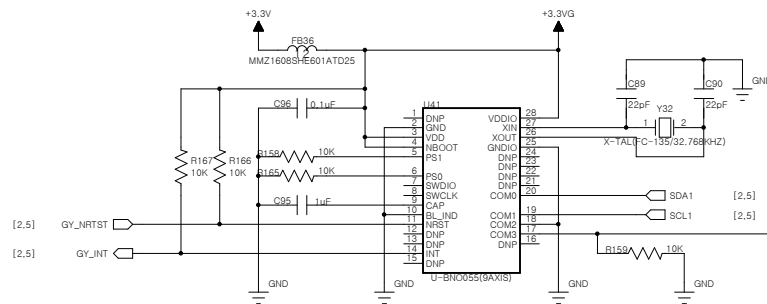


SHUT 추가

SPI



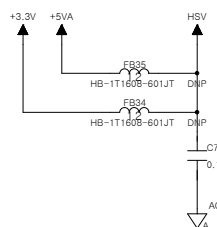
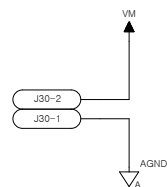
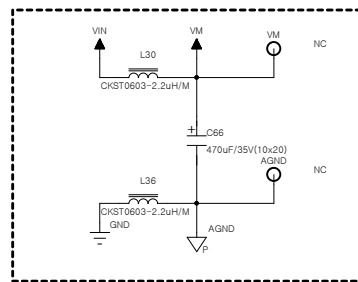
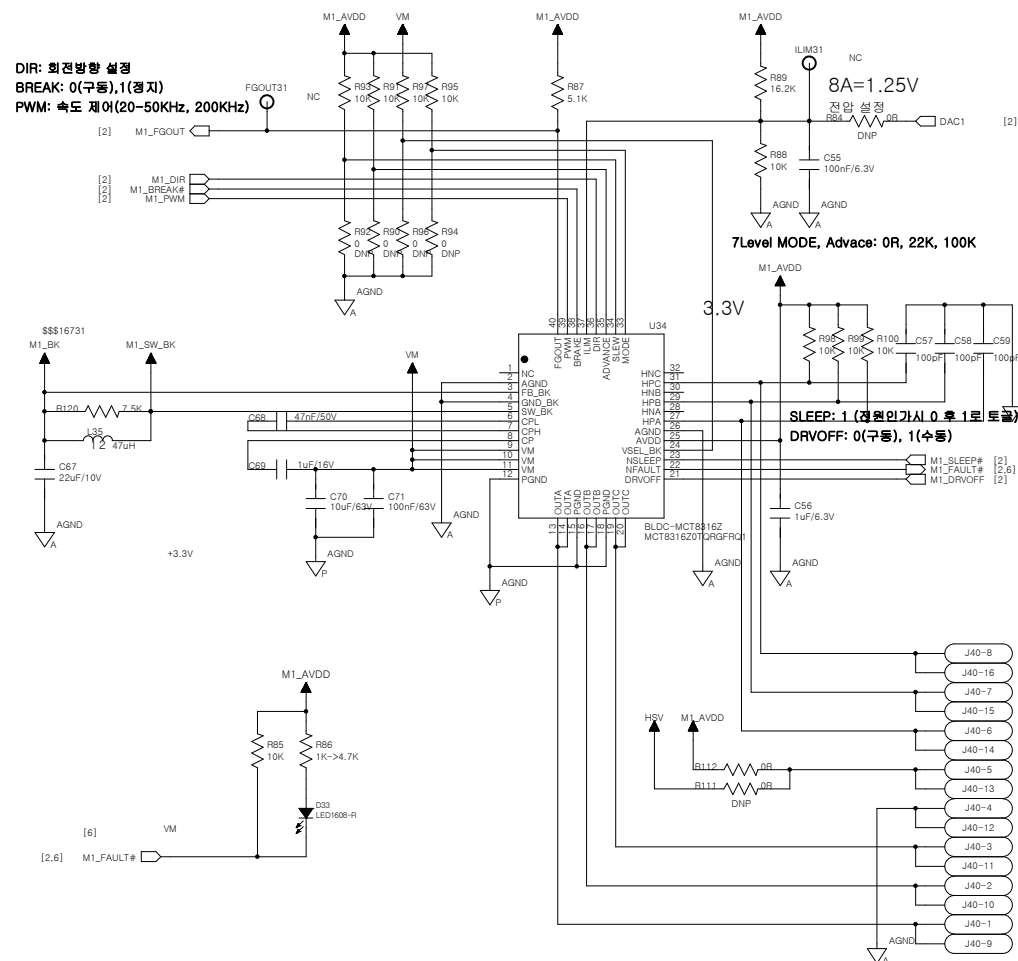
자이로 센서



MOTOR1

$$I_{limit} = (1.75 - V_{lim}) / GAIN(0.15) = 1.0A$$

GAIN은 하드웨어 버전에서 고정값 0.15V/A



MOTOR1

$$I_{limit} = (1.75 - V_{lim}) / GAIN(0.15) = 1.0A$$

GAIN은 하드웨어 버전에서 고정값 0.15V/A

