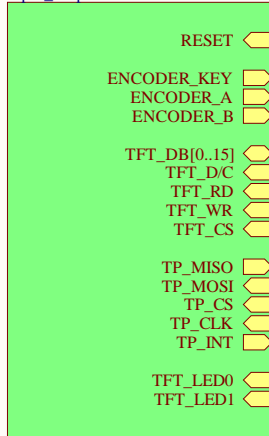
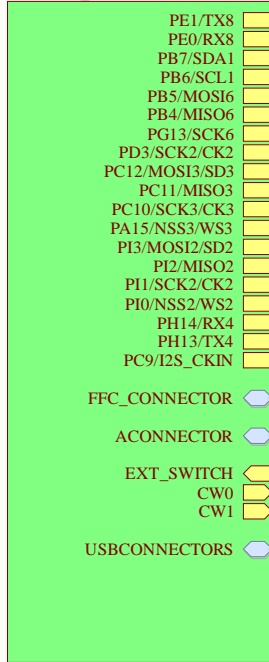


TFT, TP, ENCODER
input_output.SchDoc



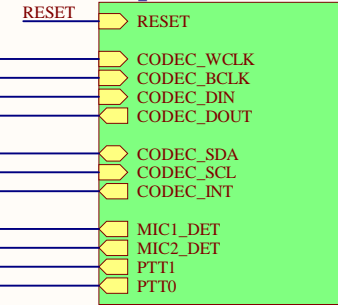
BOARD CONNECTORS
extensions_connectors.SchDoc



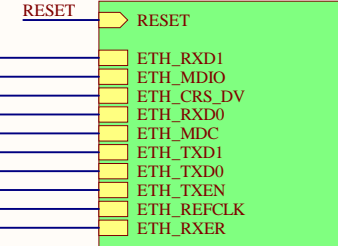
CPU
cpu.SchDoc



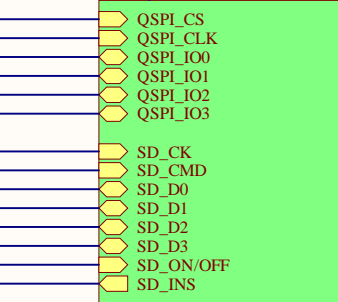
CODEC, AUDIO CONNECTORS
audio_codec.SchDoc



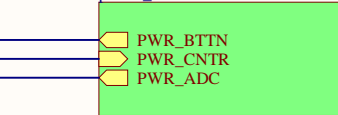
ETHERNET
ethernet.SchDoc

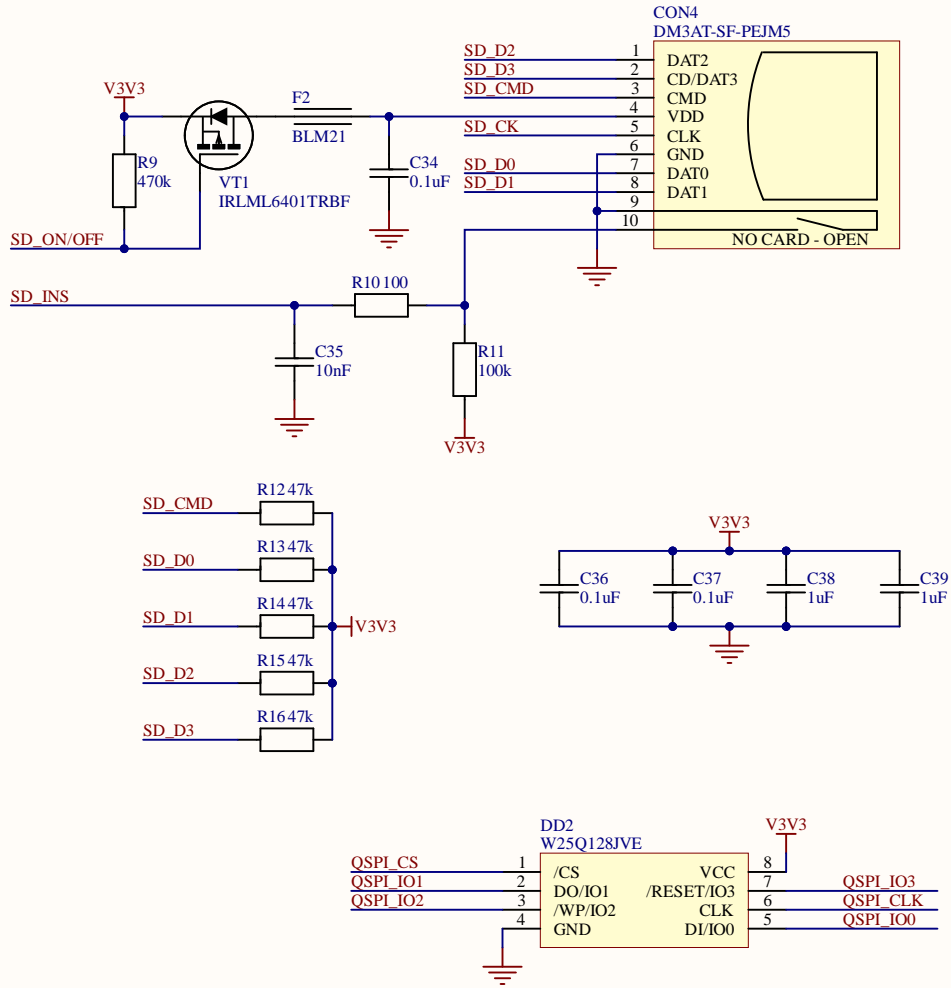
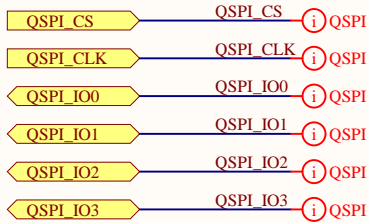
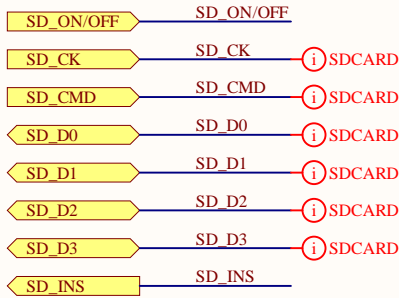


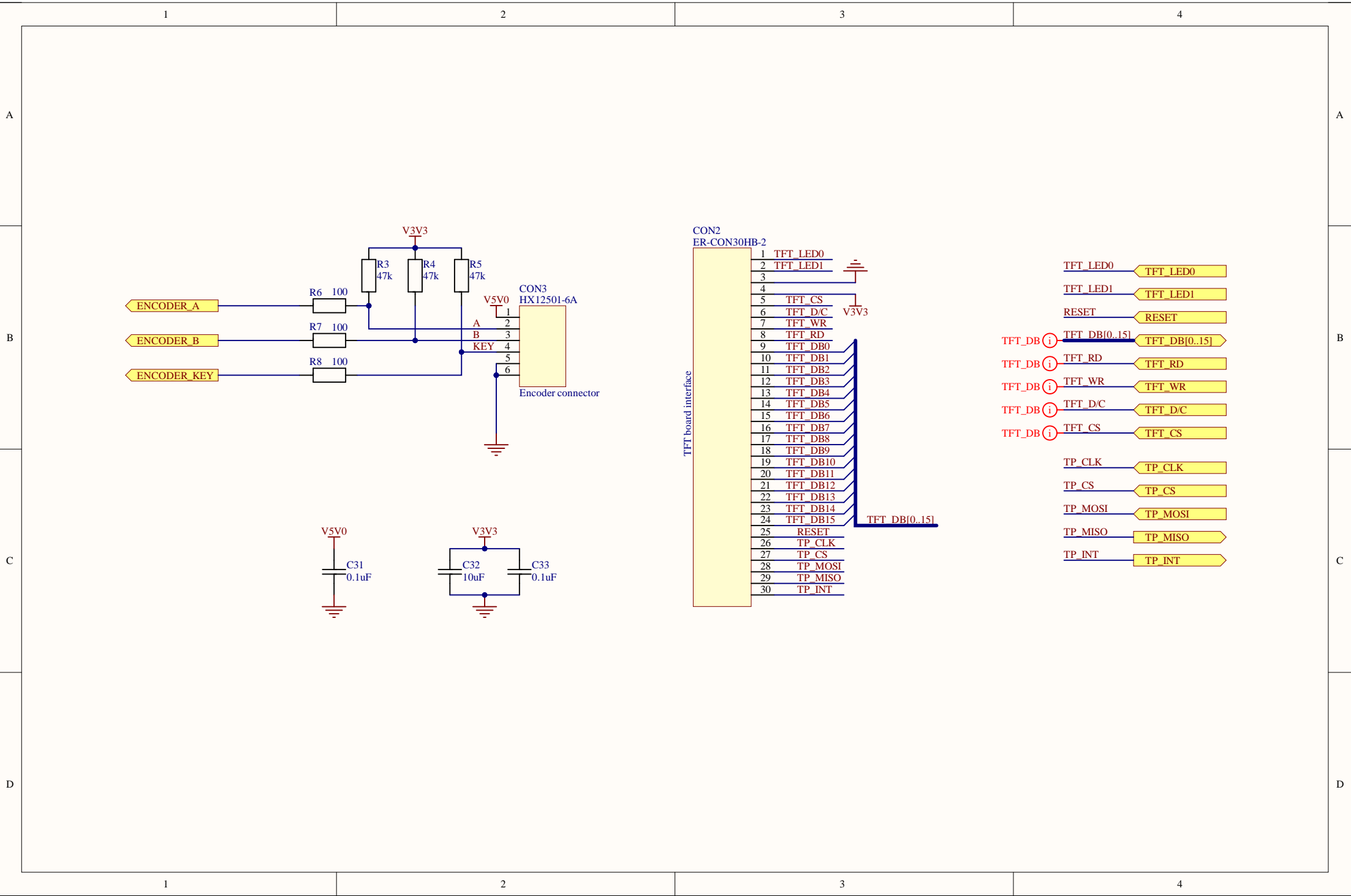
MEMORY, SD/MMC
memory.SchDoc

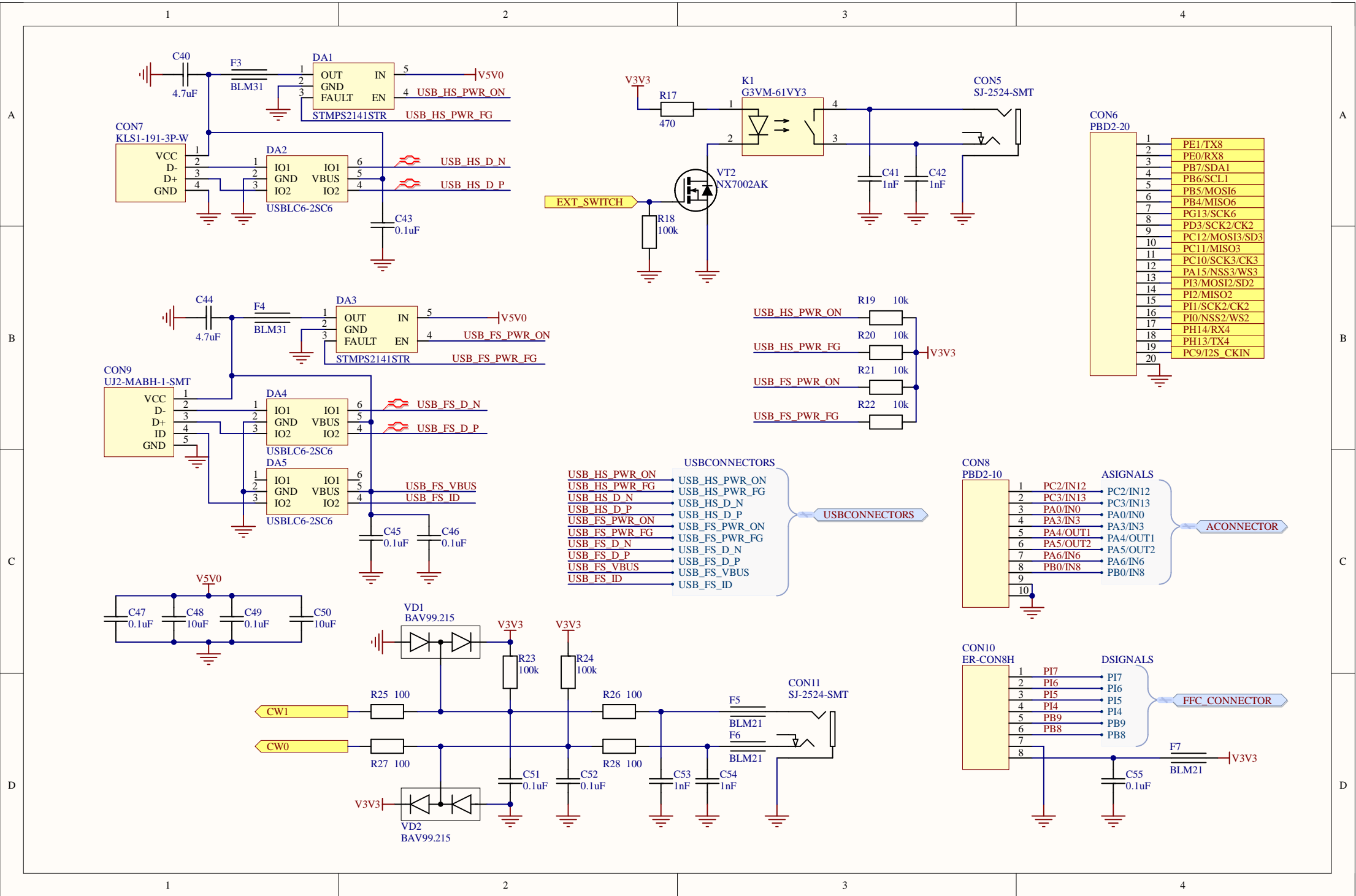


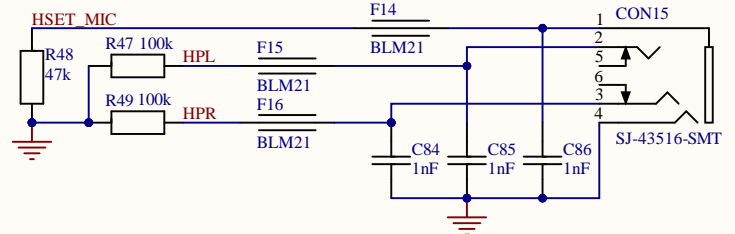
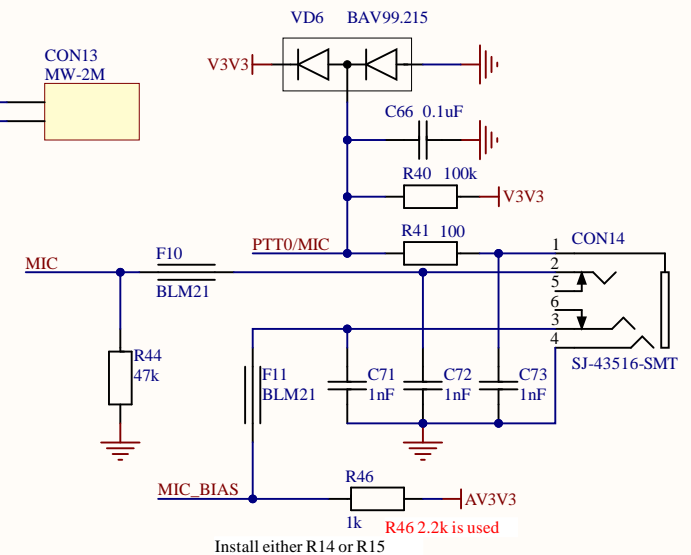
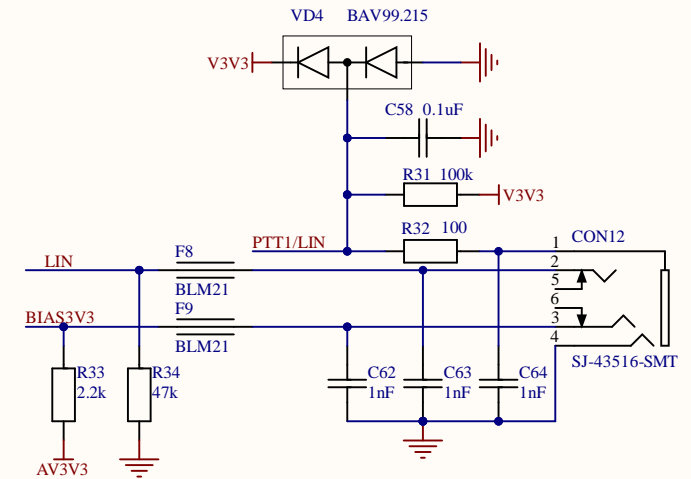
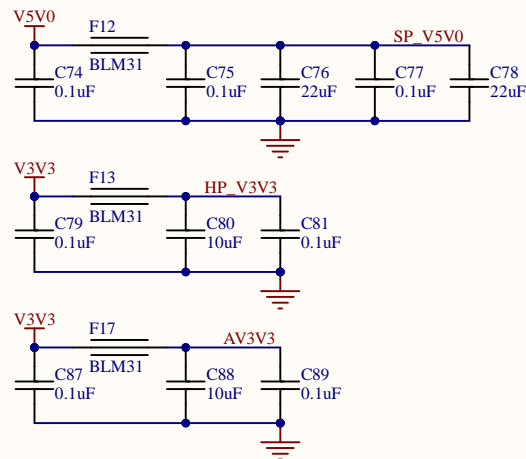
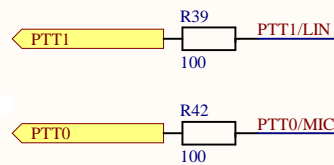
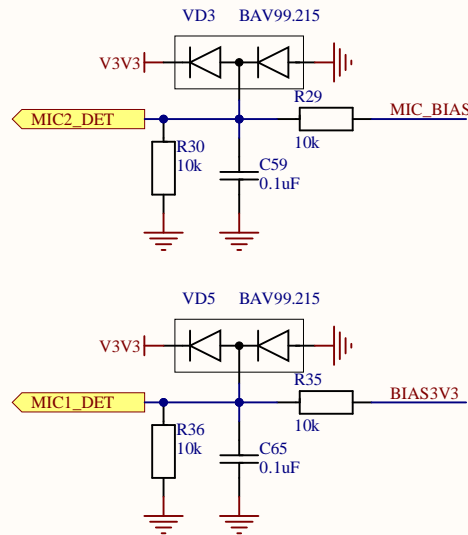
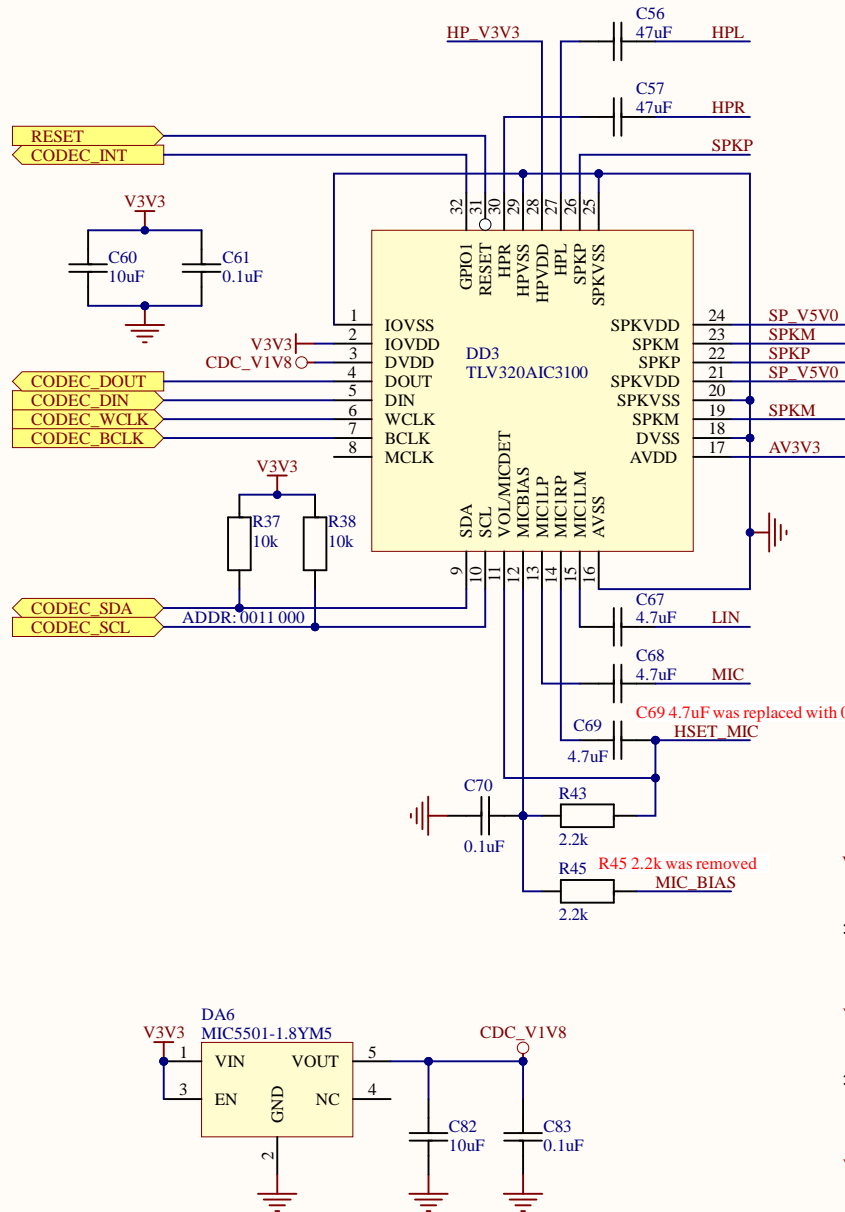
POWER CONTROL
power_control.SchDoc

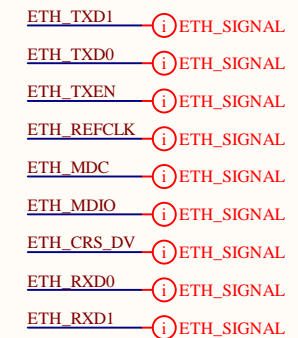
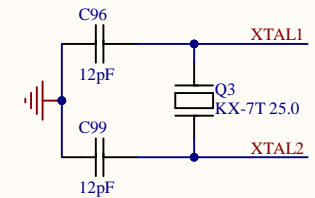
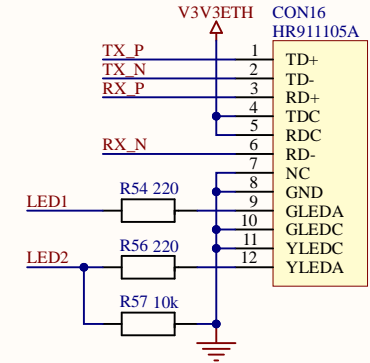
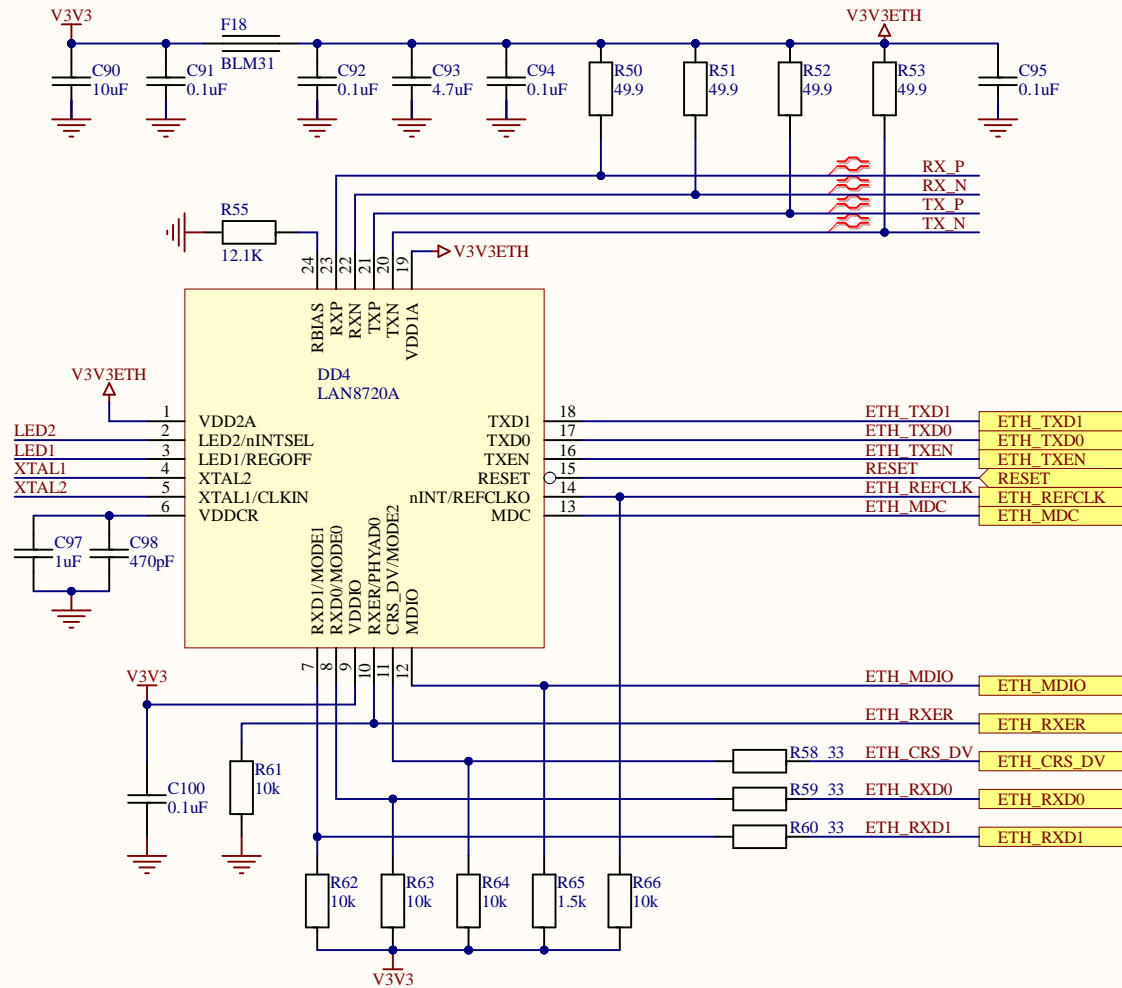


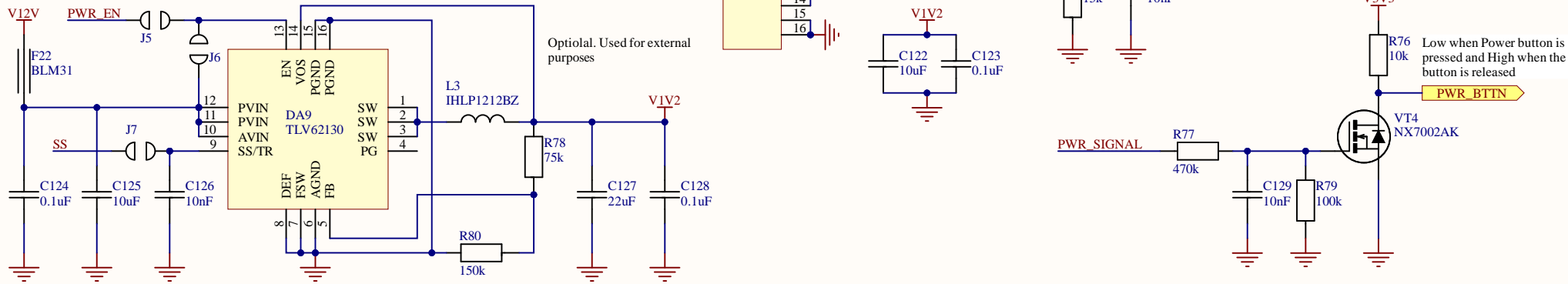
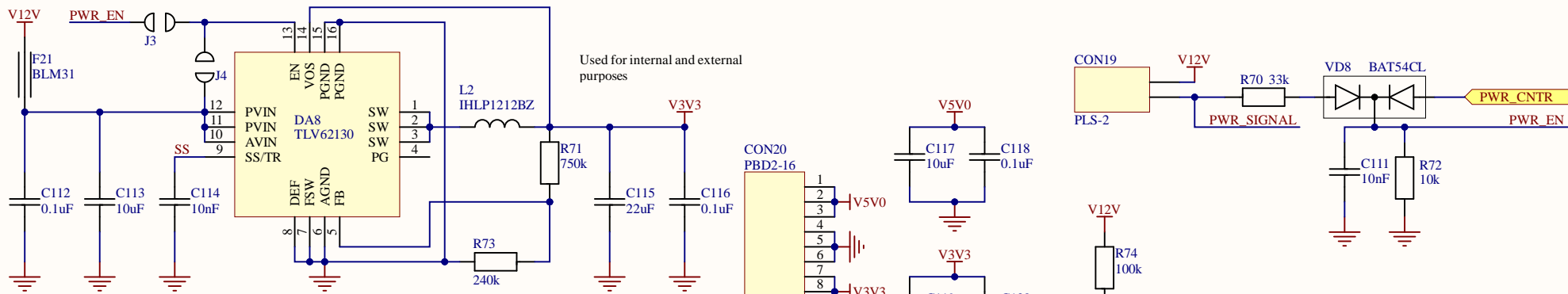
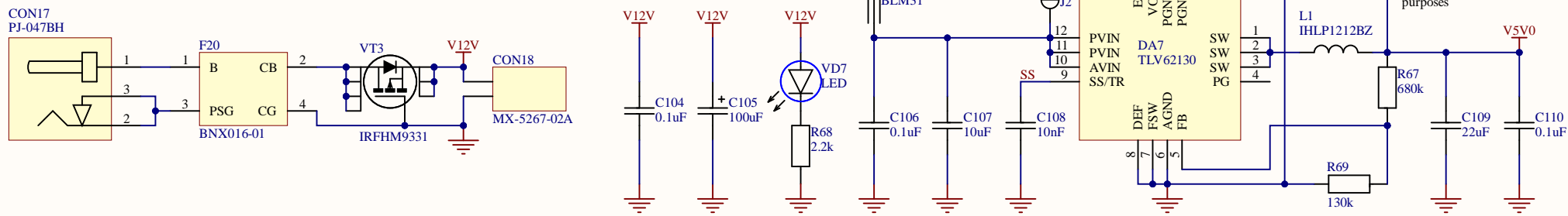












| Designator | Comment | Quantity | Description | Footprint | Label |
|---|------------------|----------|--|----------------------|---------------------|
| B1 | KEY1066 | 1 | KEY1066, Battery Holder | BATH_KEYSTONE_1066 | BATTERY |
| C1, C2, C96, C99 | 12pF | 4 | C0805ARMPO9R812 0/0805 | CAPC2013X100N | Cap0805 |
| C3, C4 | 22pF | 2 | C0805ARMPO9R822 0/0805 | CAPC2013X100N | Cap0805 |
| C5, C8, C9, C10, C11, C12, C13, C14, C17, C18, C19, C22, C23, C24, C25, C26, C27, C30, C31, C33, C34, C36, C37, C43, C46, C48, C49, C51, C52, C55, C58, C59, C61, C65, C66, C70, C74, C75, C77, C79, C81, C83, C87, C89, C91, C92, C94, C96, C100, C104, C106, C110, C112, C116, C118, C120, C123, C124, C128 | 0.1uF | 60 | GRM218R71H104040 TL0805 | CAPC2013X100N | Cap0805 |
| C6, C7, C28, C29, C38, C39, C97 | 1uF | 7 | GRM219R71E105KAB 0/0805 | CAPC2013X100N | Cap0805 |
| C14, C30 | 2.2uF | 2 | GRM218R71A225R40 TL10V0805 | CAPC2013X100N | Cap0805 |
| C15, C21, C40, C44, C47, C48, C68, C93 | 4.7uF | 8 | GRM218R71A475KAT 3L0805 | CAPC2013X100N | Cap0805 |
| C32, C48, C50, C60, C80, C82, C88, C90, C117, C119, C122 | 10uF | 11 | GRM218R60J106KE19 6.3V0805 | CAPC2013X100N | Cap0805 |
| C35, C108, C111, C114, C121, C126, C129 | 10uF | 1 | C0805SRX700B8103 0805 | CAPC2013X100N | Cap0805 |
| C41, C42, C53, C54, C62, C63, C64, C71, C72, C73, C84, C85, C86 | 1nF | 13 | C0805ARMPO9R102 0805 | CAPC2013X100N | Cap0805 |
| C56, C57 | 47uF | 2 | GRM218R61A474AE1 5L10V0805 | CAPC2013X100N | Cap0805 |
| C76, C78, C99, C115, C127 | 22uF | 5 | GRM218R60J22ME3 6.3V0805 | CAPC2013X100N | Cap0805 |
| C88 | 47uF | 1 | 0805 | CAPC2013X100N | Cap0805 |
| C105 | 100uF | 1 | 593D107X902E2TE3, TFCAP 100/20V E10 | CAPMP7343430N | CapPolarized |
| C107, C113, C125 | 10uF | 3 | GRM219R71E106AA1 3L25V1206 | CAPC3216K125N | Cap1206 |
| CON1 | RS-485 | 1 | RS-485 | RS-485 | CONNECTOR-6 |
| CON2 | 18-CON08B-2, ETC | 1 | 18-CON08B-2, ETC | 18-CON08B-2 | CONNECTOR-30 |
| CON3 | HV12501-6A | 1 | HV12501-6A, Connector | HV12501-6A | CONNECTOR-6 |
| CON4 | DM3AT-SF-PEJMS | 1 | DM3AT-SF-PEJMS, MicroSD connector | DM3AT-SF-PEJMS | DM3AT-SF-PEJMS |
| CON5, CON11 | SI-2524-SMT | 2 | SI-2524-SMT, 2.5 Audio Jack | SI-2524-SMT | JACK 2.5mm 3C |
| CON6 | P802-20 | 1 | P802-20 | P802-20-2-0 | CONNECTOR-20 |
| CON7 | RS1-191-3P-W | 1 | RS1-191-3P-W Hont USB Connector, type A | USB_TYPE_A2 | USB_CONNECTOR |
| CON8 | P802-10 | 1 | P802-10 | P802-10-2-0 | CONNECTOR-10 |
| CON9 | UI2-MAMB-1-SMT | 1 | UI2-MAMB-1-SMT MiniUSB AB type connector | UI2-MAMB-SMT | MINIUSB_CONNECTOR |
| CON10 | 18-CON08B | 1 | 18-CON08B-2, ETC | 18-CON08B-2 | CONNECTOR-30 |
| CON12, CON14, CON15 | SI-4351X-SMT | 3 | SI-4351X-SMT | SI-4351X-SMT | JACK 1.5mm 4C |
| CON13 | MMV-2M | 1 | MMV-2M, Connector | MMV-2M | CONNECTOR-2 |
| CON16 | HR911105A | 1 | HR911105A, Ethernet connector, RJ45 | HR911105A | HR911105A |
| CON17 | PJ-047BH | 1 | PJ-047BH, DC POWER JACK | PJ-047BH | PJ-047BH |
| CON18 | MX-5267-02A | 1 | MX-5267-02A, Connector | MX-5267-02A | CONNECTOR-2 |
| CON19 | RS-2 | 1 | RS-2 | RS-2-2-54 | CONNECTOR-2 |
| CON20 | P802-16 | 1 | P802-16 | P802-16-2-0 | CONNECTOR-16 |
| DA1, DA3 | STMP52151STR | 2 | STMP52151STR | SOT23-5 | STMP52151STR |
| DA2, DA4, DA5 | USBL-C6-25C6 | 3 | USBL-C6-25C6, ESD Protection | SOT23-6 | USBL-C6-2 |
| DA6 | MIC5501-1.8VMS | 1 | MIC5501-1.8VMS, 300mA Single Output LDO in Small Packages | SOT23-5 | MIC5501-1.8VMS |
| DA7, DA8, DA9 | TLV62130 | 1 | TLV62130 3-V to 17-V 3-A Step-Down Converter In 3x3 QFN Package, TLV62130A, 3-V to 17-V 3-A Step-Down Converter In 3x3 QFN Package | QFN50P2600X2600X1750 | TLV62130 |
| DB1 | STM32F765IIT | 1 | STM32F765IIT, LQFP176 | QFP50P2600X2600X1750 | STM32F765IIT |
| DB2 | W25Q128W | 1 | W25Q128W, 128Kbit | SON171700X0600X09W | W25Q128W |
| DB3 | TLV320AIC3100 | 1 | TLV320AIC3100, Audio codec | QFN-32 | TLV320AIC3100 |
| DB4 | LAN8720A | 1 | LAN8720A, Ethernet controller | QFN-24 | LAN8720A |
| F1, F2, F5, F6, F7, F8, F9, F10, F11, F14, F15, F16 | BLM31 | 12 | BLM31, Ferrite Bead | RES2013064N | BLM31 |
| F3, F4, F12, F13, F17, F18, F19, F21, F22 | BLM31 | 9 | Ferrite Bead 1206, BLM31N08019X1L | CAPC3216K125N | BLM31 |
| F20 | BNX002-01 | 1 | BNX002-01, EMI Filter | BNX002-01 | BNX002-01 |
| J1, J2, J3, J4, J5, J6, J7 | JUMPER | 7 | JUMPER | JUMPER | JUMPER |
| K1 | CDVM-61VY3 | 1 | General purpose MOSFET Relays | SpecialSOP-4 | CDVM-61VY3 |
| L1, L2, L3 | HEP1212B2 | 3 | HEP1212B2-01 | IND-4H-P1212B2 | Inductor |
| Q1 | KX-71-6.0 | 1 | KX-71-6.0, QUARTZ CRYSTAL | KX-7 | KX-K |
| Q2 | KX-327NH4T | 1 | KX-327NH4T, QUARTZ CRYSTAL | KX-327NH4T | KX-K |
| Q3 | KX-71-25.0 | 1 | KX-71-25.0, QUARTZ CRYSTAL | KX-7 | KX-K |
| R1, R58, R59, R60 | 0 | 4 | 0805, 5% | RES2013064N | Res0805 |
| R2, R19, R20, R21, R22, R29, R30, R35, R36, R37, R38, R57, R61, R62, R63, R64, R66, R72, R76 | 10k | 19 | 0805, 5% | RES2013064N | Res0805 |
| R3, R4, R5, R12, R13, R14, R15, R16, R34, R44, R48 | 47k | 11 | 0805, 5% | RES2013064N | Res0805 |
| R6, R7, R8, R10, R25, R26, R27, R28, R32, R39, R41, R42 | 100 | 12 | 0805, 5% | RES2013064N | Res0805 |
| R6, R7 | 50k | 2 | 0805, 5% | RES2013064N | Res0805 |
| R11, R16, R23, R24, R31, R40, R47, R49, R74, R79 | 100k | 10 | 0805, 5% | RES2013064N | Res0805 |
| R17 | 470 | 1 | 0805, 5% | RES2013064N | Res0805 |
| R23, R43, R45, R48 | 2.2k | 4 | 0805, 5% | RES2013064N | Res0805 |
| R46 | 1k | 1 | 0805, 5% | RES2013064N | Res0805 |
| R50, R51, R52, R53 | 49.9 | 4 | 0805, 1% | RES2013064N | Res0805 |
| R54, R56 | 2.0 | 2 | 0805, 5% | RES2013064N | Res0805 |
| R55 | 12.1k | 1 | 0805, 1% | RES2013064N | Res0805 |
| R55 | 1.5k | 1 | 0805, 5% | RES2013064N | Res0805 |
| R57 | 400k | 1 | 0805, 1% | RES2013064N | Res0805 |
| R59 | 1.5k | 1 | 0805, 1% | RES2013064N | Res0805 |
| R70 | 2.5k | 1 | 0805, 5% | RES2013064N | Res0805 |
| R71 | 2.5k | 1 | 0805, 1% | RES2013064N | Res0805 |
| R73 | 240k | 1 | 0805, 1% | RES2013064N | Res0805 |
| R75 | 2.5k | 1 | 0805, 5% | RES2013064N | Res0805 |
| R78 | 2.5k | 1 | 0805, 1% | RES2013064N | Res0805 |
| R80 | 150k | 1 | 0805, 1% | RES2013064N | Res0805 |
| VD1, VD2, VD3, VD4, VD5, VD6 | BAV99-215 | 6 | BAV99-215, BAT54SL | SOT23 | DIODE-2-1A-3C-3A-2C |
| VD7 | LED | 1 | LED 0603, Red | LED 0603 Red | LED |
| VD8 | BAT54CL | 1 | BAT54CL | SOT23 | DIODE-2-1A-3C-3C-2A |
| VT1 | BLM6401188F | 1 | BLM6401188F | SOT23 | P-MOSFET 10-25 ID |
| VT2, VT4 | IXT002AM | 2 | IXT002AM | SOT23 | N-MOSFET 10-25 ID |
| VT3 | IRF8M9331 | 1 | 30V Single-P Channel HEXFET Power MOSFET in a PQFN 8mm x 8mm package | IRF8M9331 | IRF8M9331 |