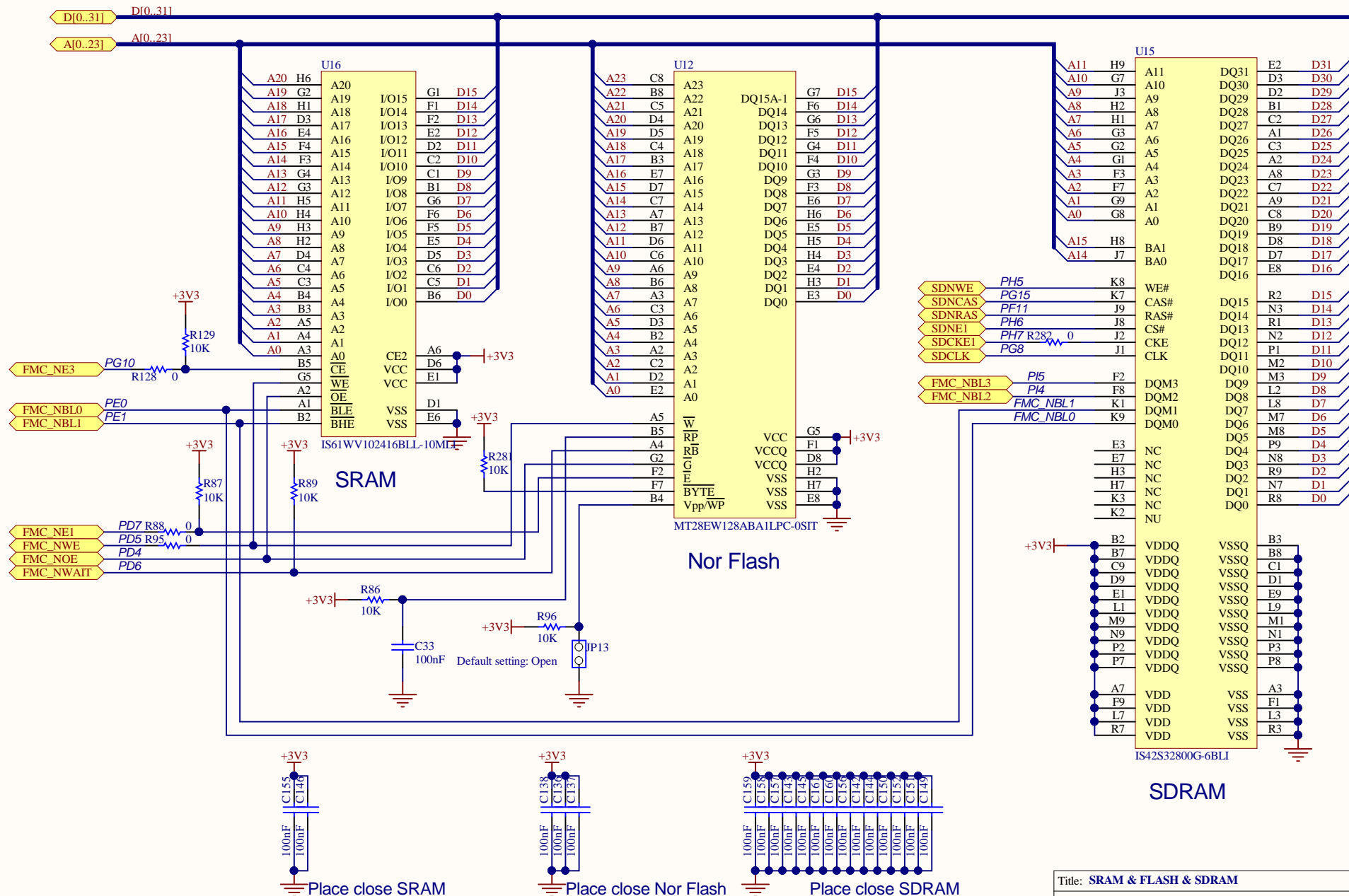


Note:

1. Text in *italic* placed on a wire doesn't correspond to net name. It just helps to identify rapidly MCU IO related to this wire.
2. R100/R103/R107's pull up power is changed from 3V3 to VDD\_IO of U13 from A.1 to B.1
3. CAN\_RX is connected to PA11 instead of PA9 and CAN\_TX is connected to PA12 instead of PA10 from A.1 to B.1
4. SAI1\_MCLKA is connected to PE2 instead of PG7 by default from A.1 to B.1
5. IRDA is removed from A.1 to B.1
6. LEDs' connection are changed, in order to avoid conflict with RGB LCD signals from A.1 to B.1
7. JP2 is moved to FDCAN1\_RX. SB50 is moved to FDCAN1\_TX from B.1 to C.1
8. Add ETH\_nINT from B.1 to C.1
9. USB sequence numbers are swapped to match datasheet from B.1 to C.1
10. Update STLINK version3 from B.1 to C.1
11. VCAPx tied together for both SMPS and LDO mode on MCU from C.1 to D.1
12. U19 ST890 is replaced by STMP2151STR from C.1 to D.1
13. Add C188 from D.1 to E.1
14. SB52 closed from E.1 to E.2

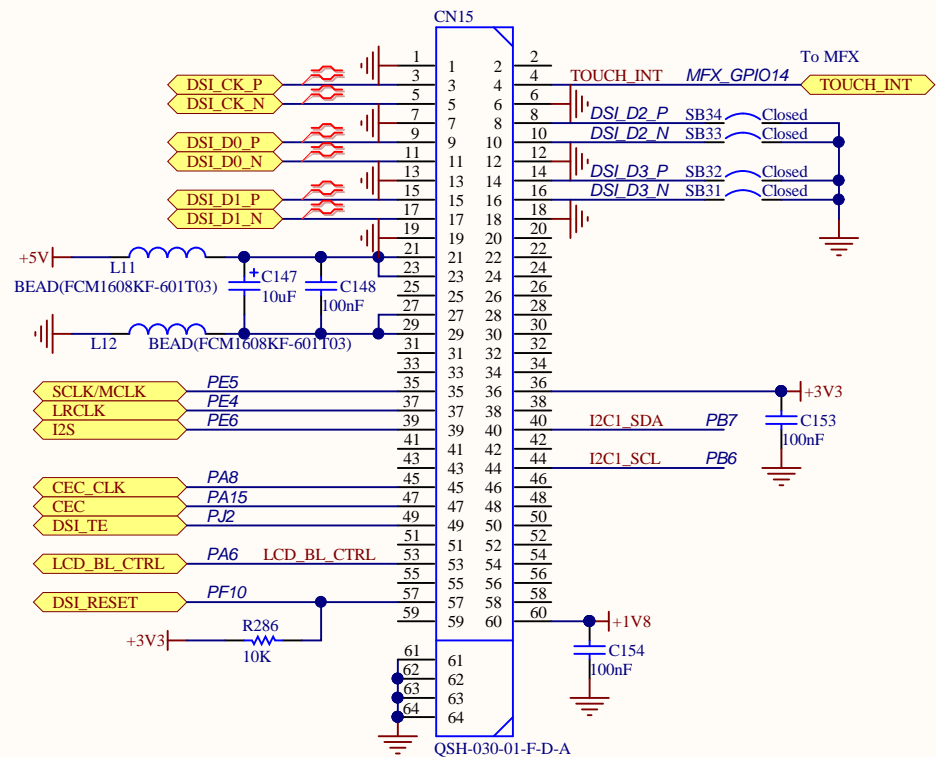






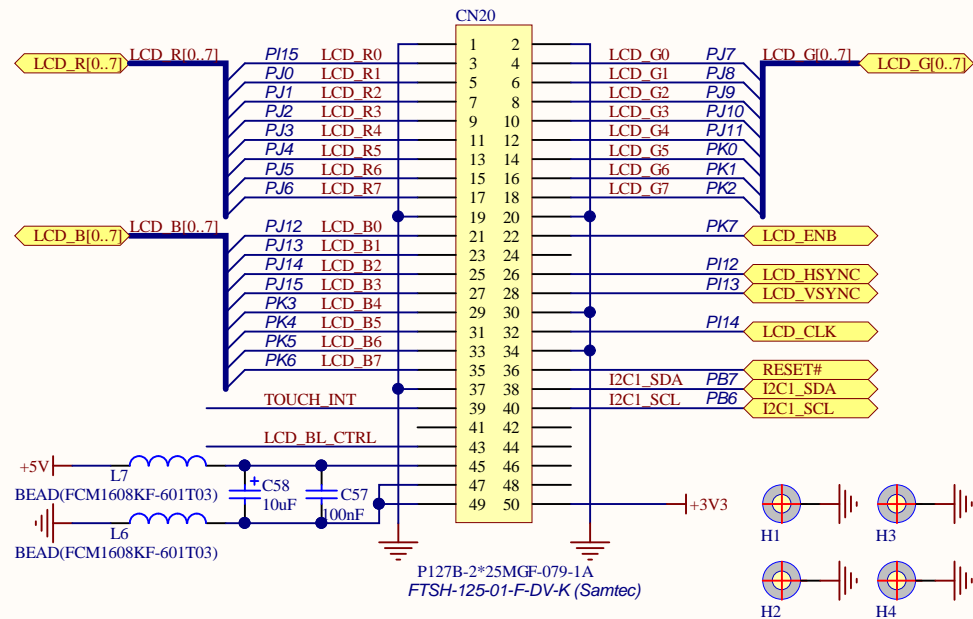


DSI LCD

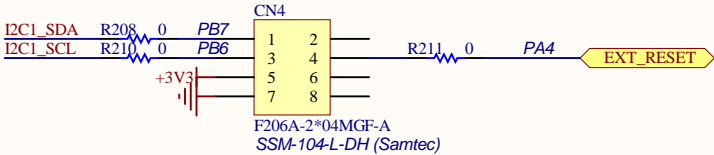


Removed for STM32H7x3

RGB LCD



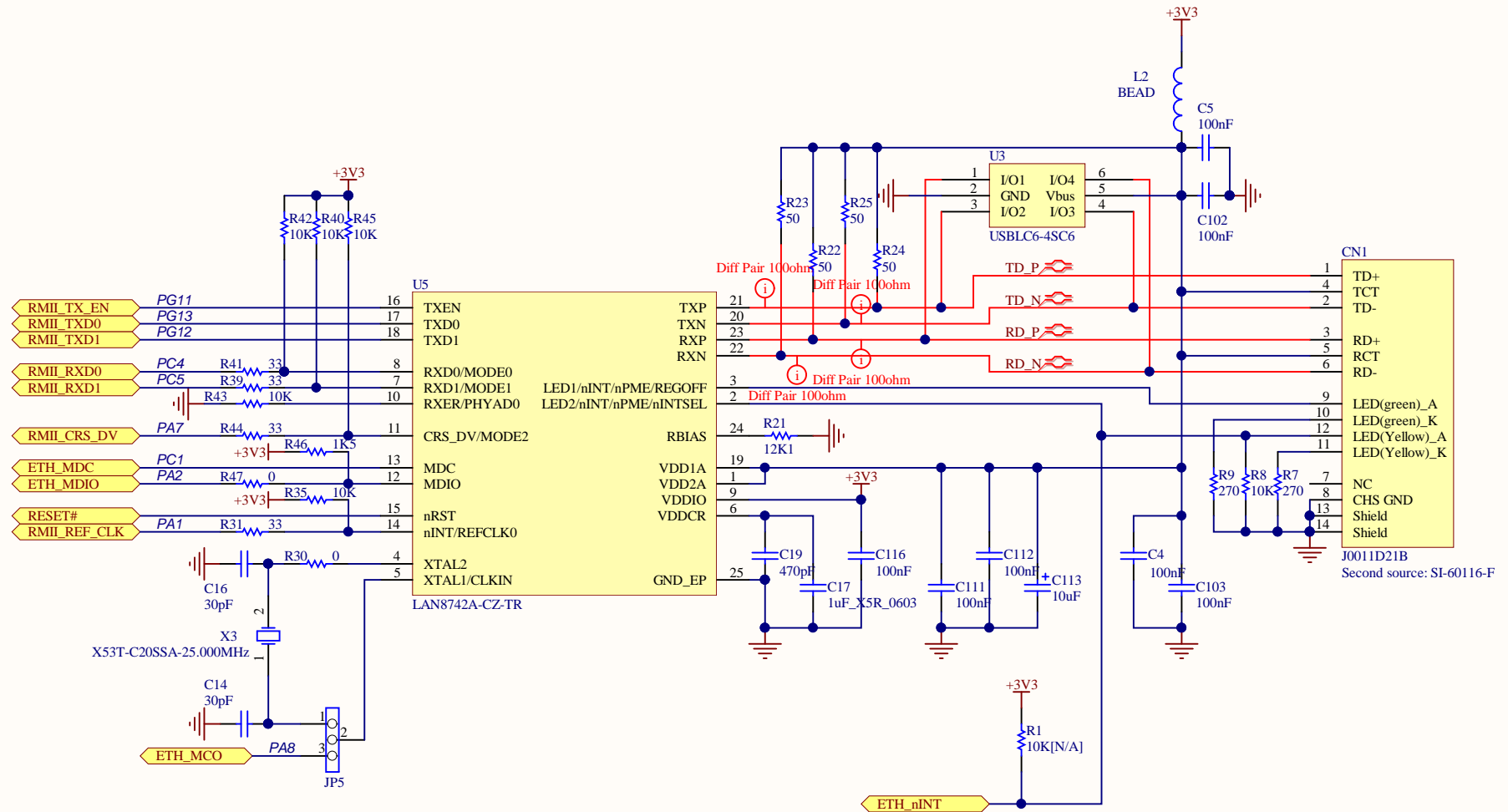
I2C Connector

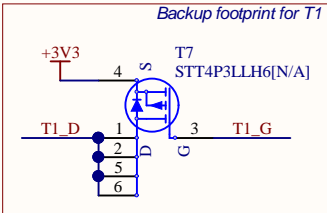


Title: LCD Connectors		
Project: STM32H7xxI-EVAL		
Size: A4	Reference: MB1246	Revision: E.2
Date: 2/13/2019	Sheet: 6 of 17	

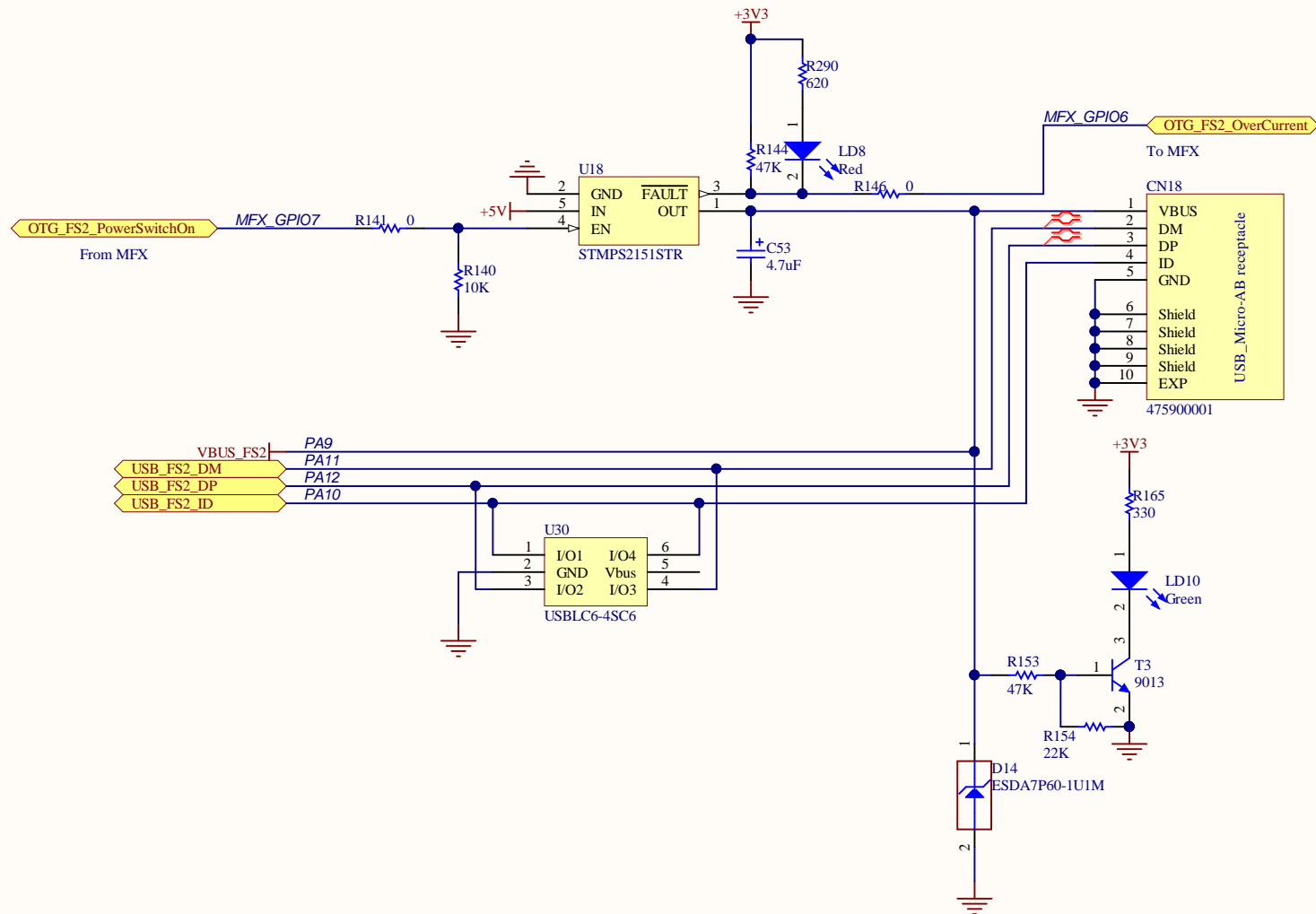


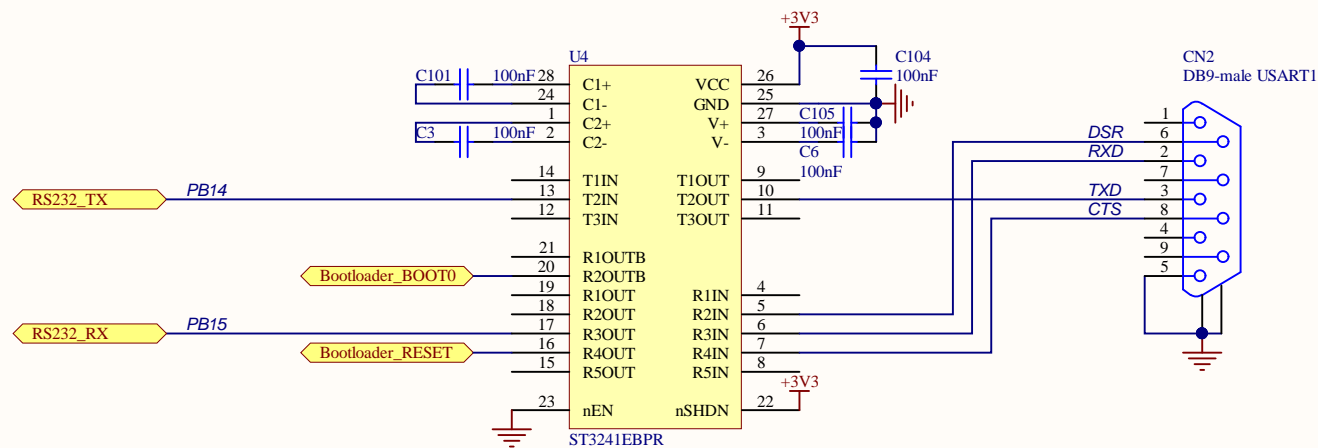








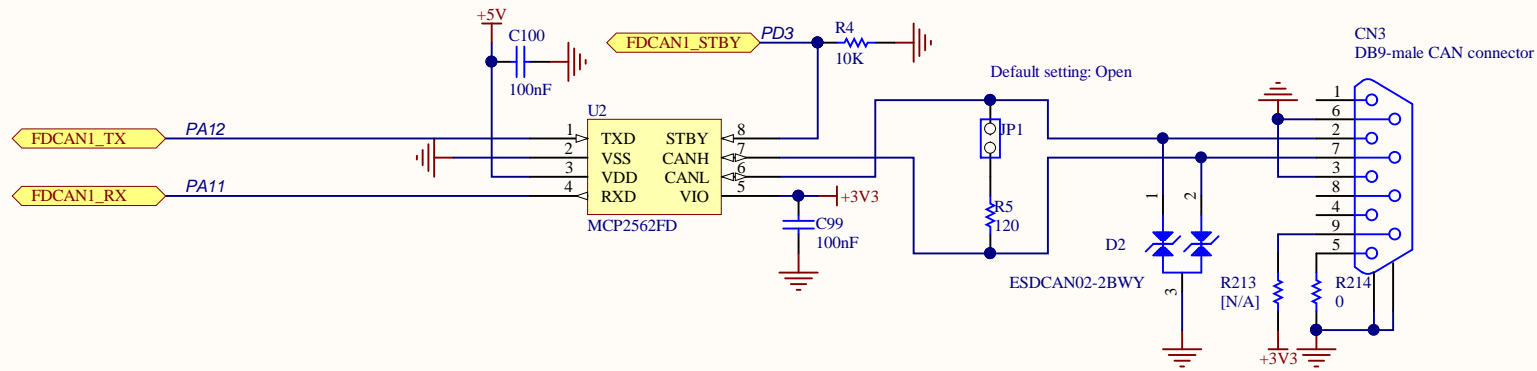




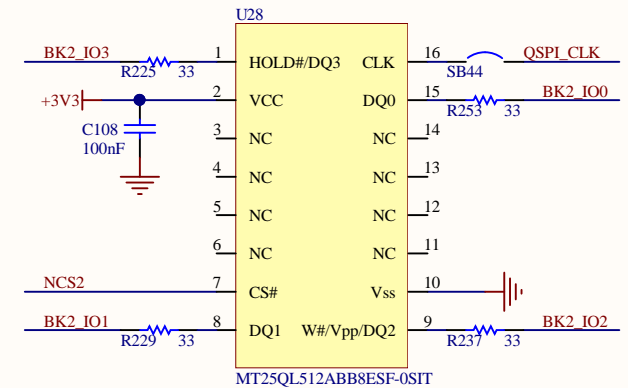
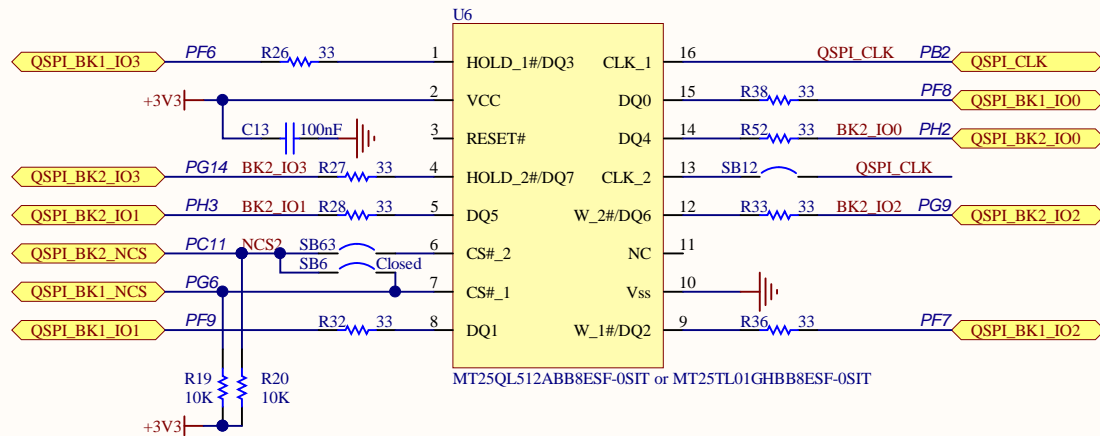
## RS232

Title: <b>RS232</b>		
Project: <b>STM32H7xxI-EVAL</b>		
Size: <b>A4</b>	Reference: <b>MB1246</b>	Revision: <b>E.2</b>
Date: <b>2/13/2019</b>	Sheet: <b>10</b> of <b>17</b>	





## Twin Quad SPI Flash



Removed when using One Twin Quad SPI Flash

Twin Quad SPI Flash configurations:

Two Quad SPI Flash	U6:MT25QL512ABB8ESF-0SIT	U28:MT25QL512ABB8ESF-0SIT	R225/R229/R237/R253, SB44, C108 ON	R27/R28/R33/R52, SB12/SB63 OFF
One Twin Quad SPI Flash	U6:MT25TL01GHHB8ESF-0SIT	U28:NA	R27/R28/R33/R52, SB12/SB63 ON	R225/R229/R237/R253, SB44, C108 OFF

Title: <b>FDCAN &amp; QSPI</b>		
Project: <b>STM32H7xxI-EVAL</b>		
Size: <b>A4</b>	Reference: <b>MB1246</b>	Revision: <b>E.2</b>
Date: <b>2/13/2019</b>		Sheet: <b>11 of 17</b>

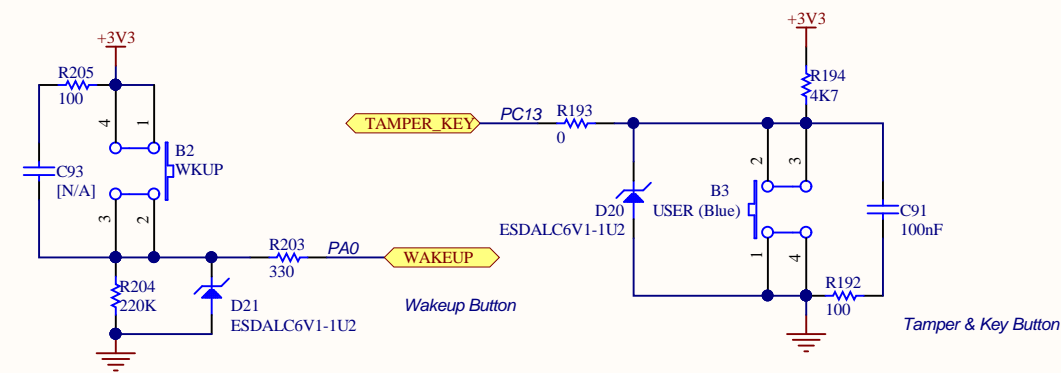
The schematic diagram illustrates the module board (M1) and its connections. The board includes a microcontroller (M1) with various pins connected to external components and supplies.

**Module board (M1) connections:**

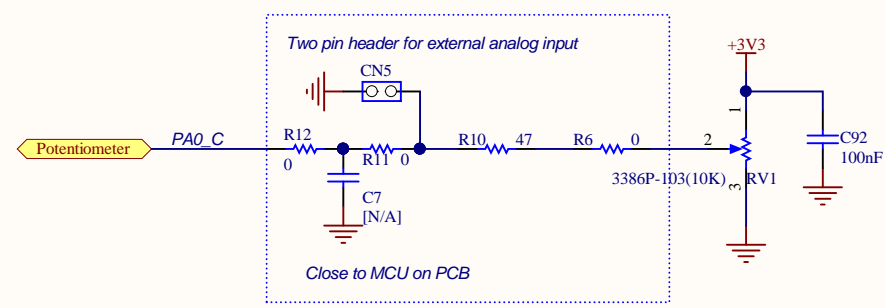
- SDIO1:** SDIO1\_CLK (PC12), SDIO1\_CKIN (PB8), SDIO1\_CMD (PD2), SDIO1\_CDIN (PB9), SDIO1\_D0 (PC8), SDIO1\_D1 (PC9), SDIO1\_D2 (PC10), SDIO1\_D3 (PC11), SDIO1\_D0DIR (PC6), SDIO1\_D123DIR (PC7), SD\_LDO\_SEL (MFX\_GPIO13).
- Power and Ground:** +3V3 supply connected to R83, R91, R93, R92, R82, R84, R139, and +3V3 pin. +2V9\_SD supply connected to R112, R97, R98, R115, R110, and +2V9\_SD pin. Ground connections for various pins and components.
- MicroSDCard\_Detect:** MFX\_GPIO15 connected to the MicroSD card (CN13).
- Other components:** Resistors (R83, R91, R93, R92, R82, R84, R139, R112, R97, R98, R115, R110), capacitors (C1, E2, D2, A2, D1, E1, A1, B1, A3, E3, B2, C2, A4, B3, C3, C35), and a microcontroller (M1).

The diagram shows the internal wiring of the module board, including the microcontroller (M1) and its connections to various pins and components. The board is labeled "Module board" and "IP4856CX25/C\_Module\_REV".

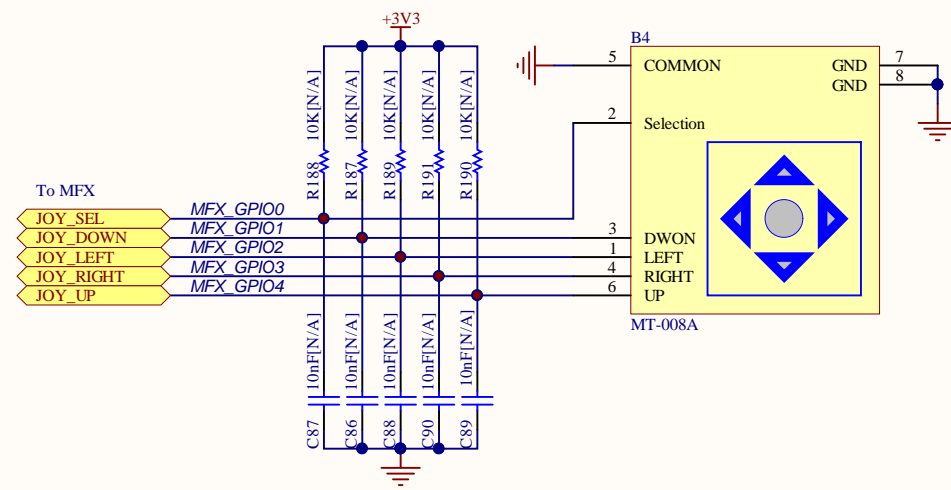
Buttons



Potentiometer



Joystick



LEDs

