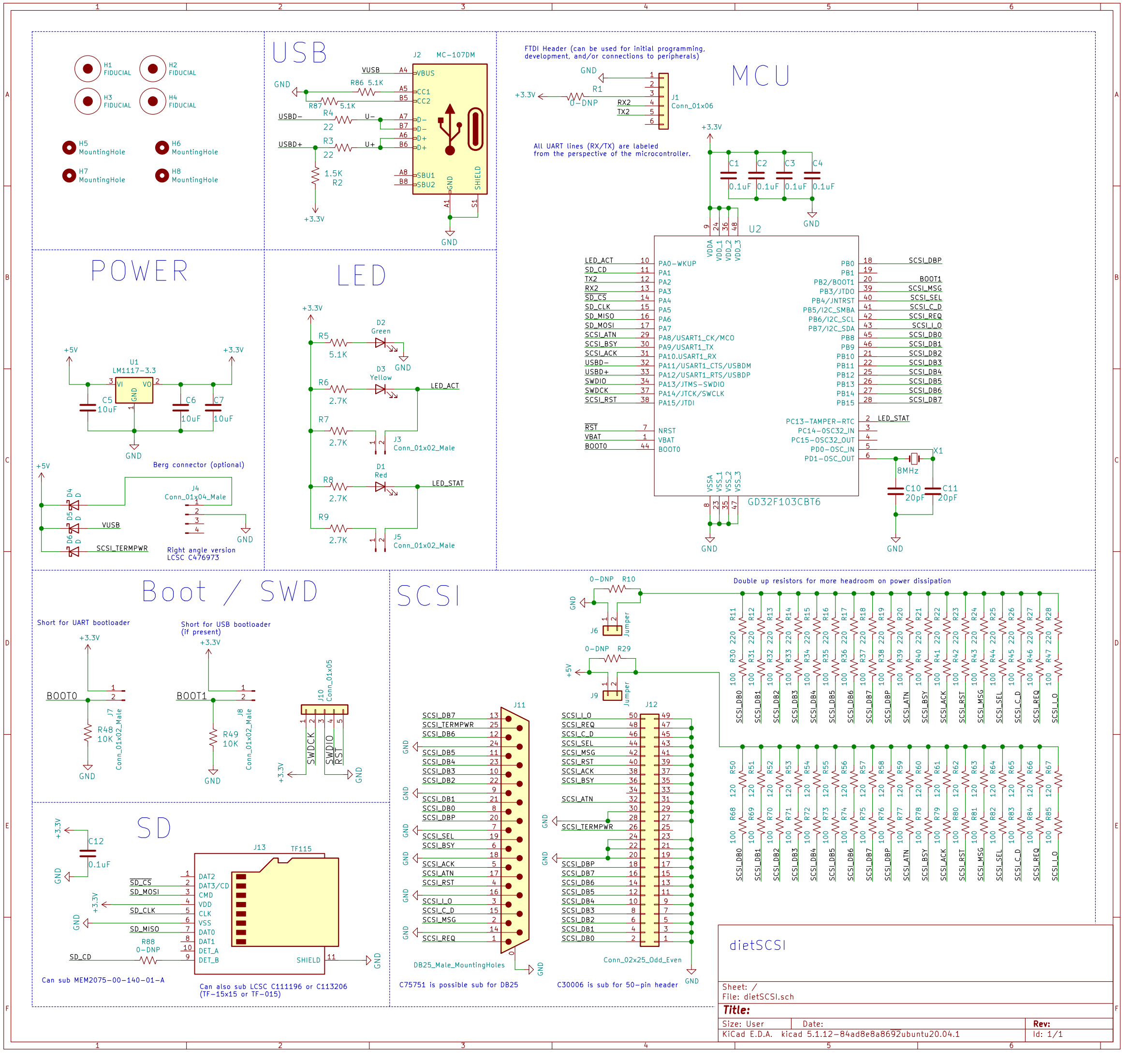
H1 FIDUCIAL
H2 FIDUCIAL
H3 FIDUCIAL
H4 FIDUCIAL
H5 MountingHole
H6 MountingHole
H7 MountingHole
H8 MountingHole
USB
J2 MC-107DM
VUSB
GND
R86 5.1K
R87 5.1K
USBD-
R4 22
U-
USBD+
R3 22
U+
1.5K R2
+3.3V
A4 VBUS
A5 CC1
B5 CC2
A7 D-
B7 D-
A6 D+
B6 D+
A8 SBU1
B8 SBU2
GND
SHIELD
A1
S1
FTDI Header (can be used for initial programming, development, and/or connections to peripherals)
R1 0-DNP
RX2
TX2
J1 Conn_01x06
All UART lines (RX/TX) are labeled from the perspective of the microcontroller.
MCU
C1 0.1uF
C2 0.1uF
C3 0.1uF
C4 0.1uF
U2
VDDA VDD_1 VDD_2 VDD_3
LED_ACT 10 PA0-WKUP
SD_CD 11 PA1
TX2 12 PA2
RX2 13 PA3
SD_CS 14 PA4
SD_CLK 15 PA5
SD_MISO 16 PA6
SD_MOSI 17 PA7
SCSI_ATN 29 PA8/USART1_CK/MCO
SCSI_BSY 30 PA9/USART1_TX
SCSI_ACK 31 PA10.USART1_RX
USBD- 32 PA11/USART1_CTS/USBDM
USBD+ 33 PA12/USART1_RTS/USBDP
SWDIO 34 PA13/JTMS-SWDIO
SWDCK 37 PA14/JTCK/SWCLK
SCSI_RST 38 PA15/JTDI
RST 7 NRST
VBAT 1 VBAT
BOOT0 44 BOOT0
PB0 18 SCSI_DBP
PB1 19
PB2/BOOT1 20 BOOT1
PB3/JTDO 39 SCSI_MSG
PB4/JNTRST 40 SCSI_SEL
PB5/I2C_SMBA 41 SCSI_C_D
PB6/I2C_SCL 42 SCSI_REQ
PB7/I2C_SDA 43 SCSI_I_O
PB8 45 SCSI_DB0
PB9 46 SCSI_DB1
PB10 21 SCSI_DB2
PB11 22 SCSI_DB3
PB12 25 SCSI_DB4
PB13 26 SCSI_DB5
PB14 27 SCSI_DB6
PB15 28 SCSI_DB7
PC13-TAMPER-RTC 2 LED_STAT
PC14-OSC32_IN 3
PC15-OSC32_OUT 4
PD0-OSC_IN 5
PD1-OSC_OUT 6
X1 8MHz
C10 20pF
C11 20pF
VSSA VSS_1 VSS_2 VSS_3
GD32F103CBT6
POWER
+5V
+3.3V
U1 LM1117-3.3
VI VO GND
C5 10uF
C6 10uF
C7 10uF
Berg connector (optional)
J4 Conn_01x04_Male
D4 D
D5 D
D6 D
VUSB
SCSI_TERMPWR
Right angle version LCSC C476973
LED
D2 Green
R5 5.1K
D3 Yellow
R6 2.7K
LED_ACT
R7 2.7K
J3 Conn_01x02_Male
D1 Red
R8 2.7K
LED_STAT
R9 2.7K
J5 Conn_01x02_Male
Boot / SWD
Short for UART bootloader
Short for USB bootloader (if present)
BOOT0
R48 10K
J7 Conn_01x02_Male
BOOT1
R49 10K
J8 Conn_01x02_Male
J10 Conn_01x05
SWDCK
SWDIO
RST
SD
C12 0.1uF
J13 TF115
DAT2
DAT3/CD
CMD
VDD
CLK
VSS
DAT0
DAT1
DET_A
DET_B
SHIELD
SD_CS
SD_MOSI
SD_CLK
SD_MISO
R88 0-DNP
SD_CD
Can sub MEM2075-00-140-01-A
Can also sub LCSC C111196 or C113206 (TF-15x15 or TF-015)
SCSI
0-DNP R10
J6 Jumper
0-DNP R29
J9 Jumper
Double up resistors for more headroom on power dissipation
J11
SCSI_DB7 13
SCSI_TERMPWR 25
SCSI_DB6 12
SCSI_DB5 11
SCSI_DB4 23
SCSI_DB3 10
SCSI_DB2 22
SCSI_DB1 21
SCSI_DB0 8
SCSI_DBP 20
SCSI_SEL 19
SCSI_BSY 6
SCSI_ACK 5
SCSI_ATN 17
SCSI_RST 4
SCSI_I_O 3
SCSI_C_D 15
SCSI_MSG 2
SCSI_REQ 1
DB25_Male_MountingHoles
J12
SCSI_I_O 50 49
SCSI_REQ 48 47
SCSI_C_D 46 45
SCSI_SEL 44 43
SCSI_MSG 42 41
SCSI_RST 40 39
SCSI_ACK 38 37
SCSI_BSY 36 35
34 33
SCSI_ATN 32 31
30 29
SCSI_TERMPWR 28 27
26 25
24 23
22 21
SCSI_DBP 20 19
SCSI_DB7 18 17
SCSI_DB6 16 15
SCSI_DB5 14 13
SCSI_DB4 12 11
SCSI_DB3 10 9
SCSI_DB2 8 7
SCSI_DB1 6 5
SCSI_DB0 4 3
2 1
Conn_02x25_Odd_Even
C75751 is possible sub for DB25
C30006 is sub for 50-pin header
dietSCSI
Sheet: /
File: dietSCSI.sch
Title:
Size: User
Date:
Rev:
KiCad E.D.A. kicad 5.1.12-84ad8e8a8692ubuntu20.04.1
Id: 1/1