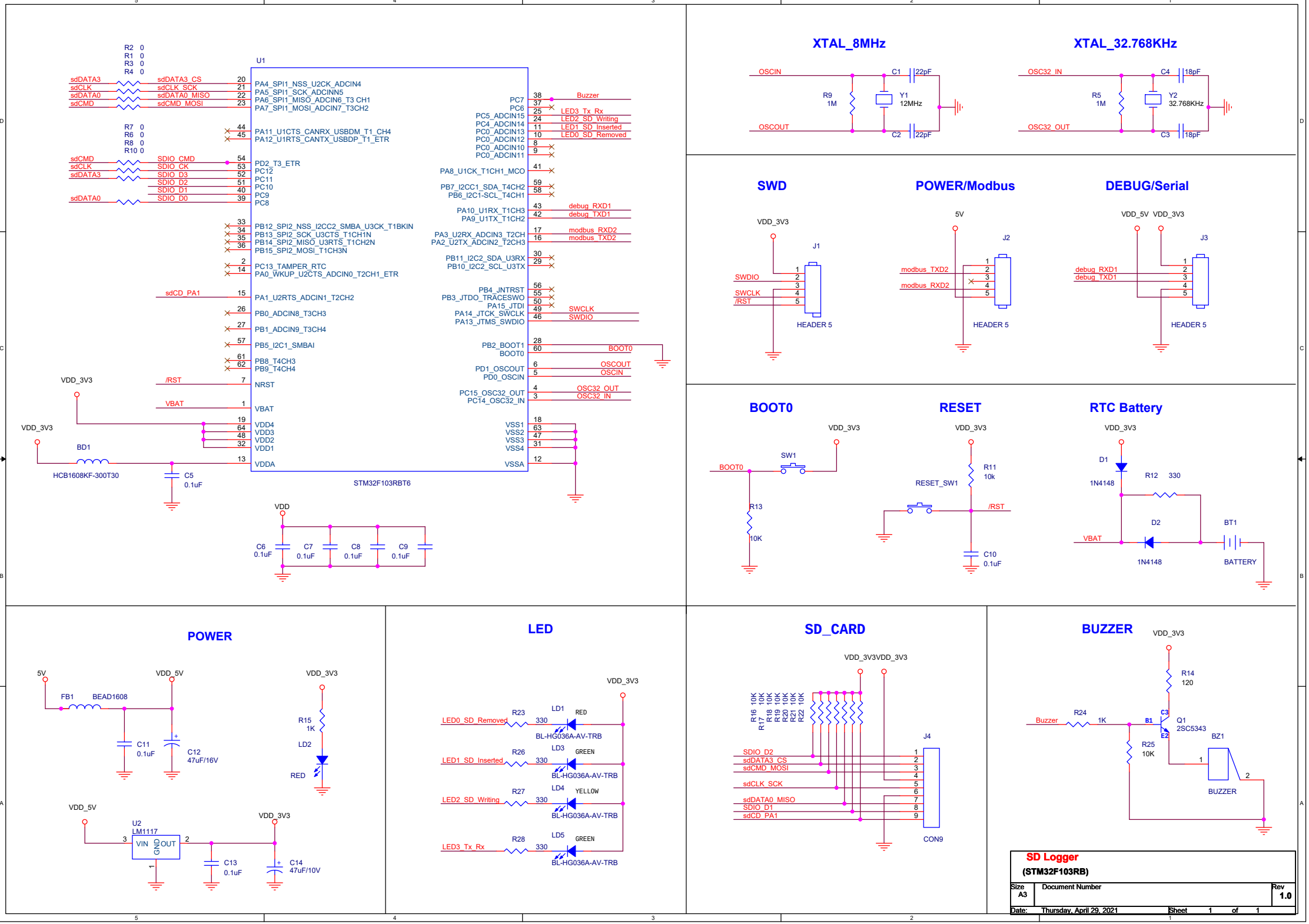
U1
STM32F103RBT6
R2 0
R1 0
R3 0
R4 0
R7 0
R6 0
R8 0
R10 0
sdDATA3
sdCLK
sdDATA0
sdCMD
sdDATA3_CS
sdCLK_SCK
sdDATA0_MISO
sdCMD_MOSI
SDIO_CMD
SDIO_CK
SDIO_D3
SDIO_D2
SDIO_D1
SDIO_D0
sdCD_PA1
/RST
VBAT
VDD_3V3
BD1
HCB1608KF-300T30
C5
0.1uF
VDD
C6 0.1uF
C7 0.1uF
C8 0.1uF
C9 0.1uF
Buzzer
LED3_Tx_Rx
LED2_SD_Writing
LED1_SD_Inserted
LED0_SD_Removed
debug_RXD1
debug_TXD1
modbus_RXD2
modbus_TXD2
SWCLK
SWDIO
BOOT0
OSCOUT
OSCIN
OSC32_OUT
OSC32_IN
XTAL_8MHz
OSCIN
OSCOUT
R9 1M
C1 22pF
C2 22pF
Y1 12MHz
XTAL_32.768KHz
OSC32_IN
OSC32_OUT
R5 1M
C4 18pF
C3 18pF
Y2 32.768KHz
SWD
J1
HEADER 5
POWER/Modbus
5V
J2
HEADER 5
DEBUG/Serial
VDD_5V
VDD_3V3
J3
HEADER 5
BOOT0
SW1
R13 10K
RESET
RESET_SW1
R11 10k
C10 0.1uF
RTC Battery
D1 1N4148
R12 330
D2 1N4148
BT1 BATTERY
POWER
5V
VDD_5V
FB1 BEAD1608
C11 0.1uF
C12 47uF/16V
R15 1K
LD2 RED
U2 LM1117
VIN GND OUT
C13 0.1uF
C14 47uF/10V
LED
LED0_SD_Removed
LED1_SD_Inserted
LED2_SD_Writing
LED3_Tx_Rx
R23 330
R26 330
R27 330
R28 330
LD1 RED
LD3 GREEN
LD4 YELLOW
LD5 GREEN
BL-HG036A-AV-TRB
SD_CARD
VDD_3V3
R16 10K
R17 10K
R18 10K
R19 10K
R20 10K
R21 10K
R22 10K
J4
CON9
SDIO_D2
sdDATA3_CS
sdCMD_MOSI
sdCLK_SCK
sdDATA0_MISO
SDIO_D1
sdCD_PA1
BUZZER
R14 120
R24 1K
Q1 2SC5343
R25 10K
BZ1
SD Logger
(STM32F103RB)
Size A3
Document Number
Rev 1.0
Date: Thursday, April 29, 2021
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