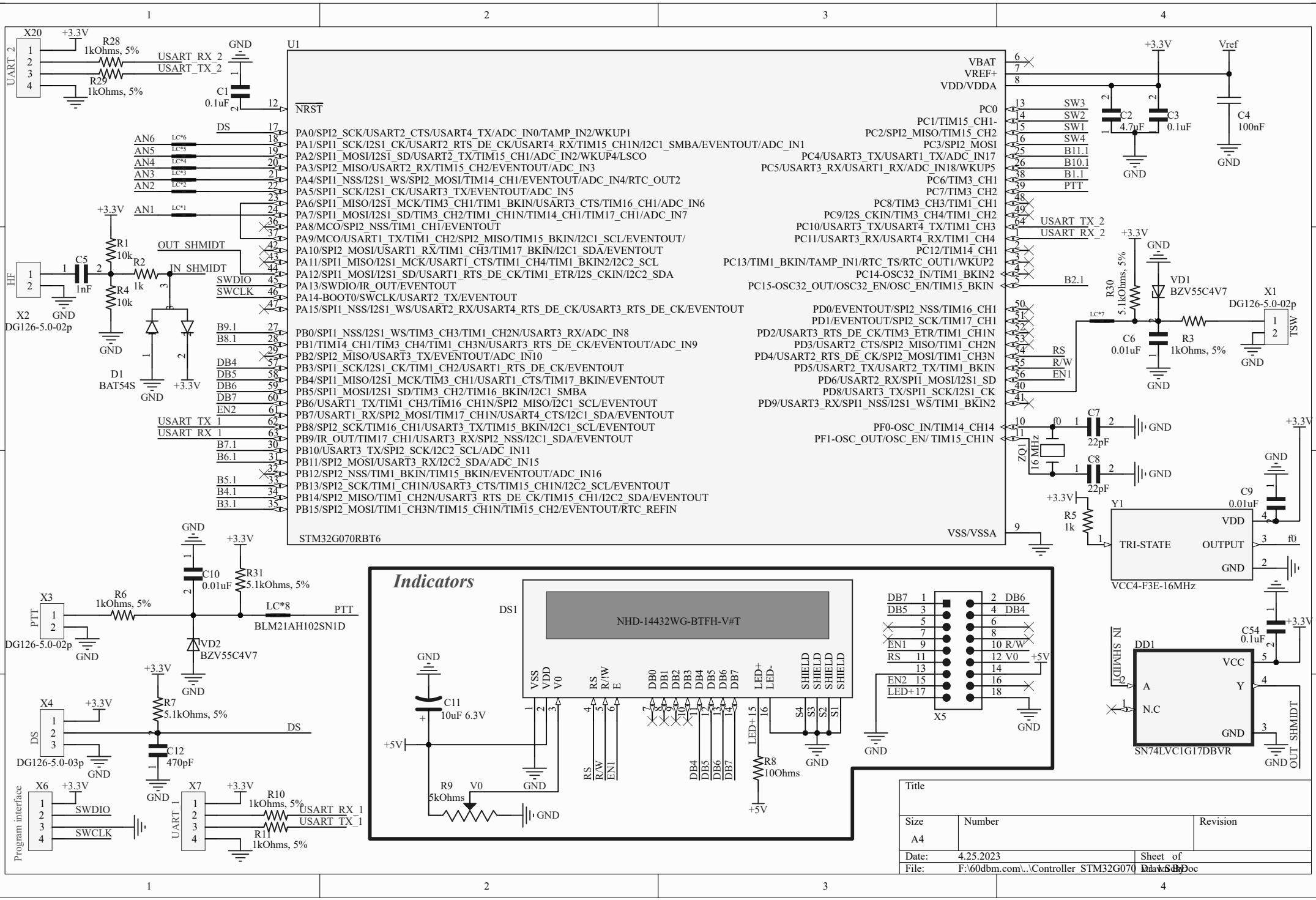
U1
STM32G070RBT6
X20
UART_2
R28 1kOhms, 5%
R29 1kOhms, 5%
USART_RX_2
USART_TX_2
C1 0.1uF
NRST
DS
AN6
AN5
AN4
AN3
AN2
AN1
LC*6
LC*5
LC*4
LC*3
LC*2
LC*1
+3.3V
R1 10k
R2 1k
R4 10k
C5 1nF
X2 DG126-5.0-02p
HF
OUT_SHMIDT
IN_SHMIDT
SWDIO
SWCLK
D1 BAT54S
B9.1
B8.1
DB4
DB5
DB6
DB7
EN2
USART_TX_1
USART_RX_1
B7.1
B6.1
B5.1
B4.1
B3.1
PA0/SPI2_SCK/USART2_CTS/USART4_TX/ADC_IN0/TAMP_IN2/WKUP1
PA1/SPI1_SCK/I2S1_CK/USART2_RTS_DE_CK/USART4_RX/TIM15_CH1N/I2C1_SMBA/EVENTOUT/ADC_IN1
PA2/SPI1_MOSI/I2S1_SD/USART2_TX/TIM15_CH1/ADC_IN2/WKUP4/LSCO
PA3/SPI2_MISO/USART2_RX/TIM15_CH2/EVENTOUT/ADC_IN3
PA4/SPI1_NSS/I2S1_WS/SPI2_MOSI/TIM14_CH1/EVENTOUT/ADC_IN4/RTC_OUT2
PA5/SPI1_SCK/I2S1_CK/USART3_TX/EVENTOUT/ADC_IN5
PA6/SPI1_MISO/I2S1_MCK/TIM3_CH1/TIM1_BKIN/USART3_CTS/TIM16_CH1/ADC_IN6
PA7/SPI1_MOSI/I2S1_SD/TIM3_CH2/TIM1_CH1N/TIM14_CH1/TIM17_CH1/ADC_IN7
PA8/MCO/SPI2_NSS/TIM1_CH1/EVENTOUT
PA9/MCO/USART1_TX/TIM1_CH2/SPI2_MISO/TIM15_BKIN/I2C1_SCL/EVENTOUT/
PA10/SPI2_MOSI/USART1_RX/TIM1_CH3/TIM17_BKIN/I2C1_SDA/EVENTOUT
PA11/SPI1_MISO/I2S1_MCK/USART1_CTS/TIM1_CH4/TIM1_BKIN2/I2C2_SCL
PA12/SPI1_MOSI/I2S1_SD/USART1_RTS_DE_CK/TIM1_ETR/I2S_CKIN/I2C2_SDA
PA13/SWDIO/IR_OUT/EVENTOUT
PA14-BOOT0/SWCLK/USART2_TX/EVENTOUT
PA15/SPI1_NSS/I2S1_WS/USART2_RX/USART4_RTS_DE_CK/USART3_RTS_DE_CK/EVENTOUT
PB0/SPI1_NSS/I2S1_WS/TIM3_CH3/TIM1_CH2N/USART3_RX/ADC_IN8
PB1/TIM14_CH1/TIM3_CH4/TIM1_CH3N/USART3_RTS_DE_CK/EVENTOUT/ADC_IN9
PB2/SPI2_MISO/USART3_TX/EVENTOUT/ADC_IN10
PB3/SPI1_SCK/I2S1_CK/TIM1_CH2/USART1_RTS_DE_CK/EVENTOUT
PB4/SPI1_MISO/I2S1_MCK/TIM3_CH1/USART1_CTS/TIM17_BKIN/EVENTOUT
PB5/SPI1_MOSI/I2S1_SD/TIM3_CH2/TIM16_BKIN/I2C1_SMBA
PB6/USART1_TX/TIM1_CH3/TIM16_CH1N/SPI2_MISO/I2C1_SCL/EVENTOUT
PB7/USART1_RX/SPI2_MOSI/TIM17_CH1N/USART4_CTS/I2C1_SDA/EVENTOUT
PB8/SPI2_SCK/TIM16_CH1/USART3_TX/TIM15_BKIN/I2C1_SCL/EVENTOUT
PB9/IR_OUT/TIM17_CH1/USART3_RX/SPI2_NSS/I2C1_SDA/EVENTOUT
PB10/USART3_TX/SPI2_SCK/I2C2_SCL/ADC_IN11
PB11/SPI2_MOSI/USART3_RX/I2C2_SDA/ADC_IN15
PB12/SPI2_NSS/TIM1_BKIN/TIM15_BKIN/EVENTOUT/ADC_IN16
PB13/SPI2_SCK/TIM1_CH1N/USART3_CTS/TIM15_CH1N/I2C2_SCL/EVENTOUT
PB14/SPI2_MISO/TIM1_CH2N/USART3_RTS_DE_CK/TIM15_CH1/I2C2_SDA/EVENTOUT
PB15/SPI2_MOSI/TIM1_CH3N/TIM15_CH1N/TIM15_CH2/EVENTOUT/RTC_REFIN
VBAT
VREF+
VDD/VDDA
VSS/VSSA
PC0
PC1/TIM15_CH1-
PC2/SPI2_MISO/TIM15_CH2
PC3/SPI2_MOSI
PC4/USART3_TX/USART1_TX/ADC_IN17
PC5/USART3_RX/USART1_RX/ADC_IN18/WKUP5
PC6/TIM3_CH1
PC7/TIM3_CH2
PC8/TIM3_CH3/TIM1_CH1
PC9/I2S_CKIN/TIM3_CH4/TIM1_CH2
PC10/USART3_TX/USART4_TX/TIM1_CH3
PC11/USART3_RX/USART4_RX/TIM1_CH4
PC12/TIM14_CH1
PC13/TIM1_BKIN/TAMP_IN1/RTC_TS/RTC_OUT1/WKUP2
PC14-OSC32_IN/TIM1_BKIN2
PC15-OSC32_OUT/OSC32_EN/OSC_EN/TIM15_BKIN
PD0/EVENTOUT/SPI2_NSS/TIM16_CH1
PD1/EVENTOUT/SPI2_SCK/TIM17_CH1
PD2/USART3_RTS_DE_CK/TIM3_ETR/TIM1_CH1N
PD3/USART2_CTS/SPI2_MISO/TIM1_CH2N
PD4/USART2_RTS_DE_CK/SPI2_MOSI/TIM1_CH3N
PD5/USART2_TX/USART2_TX/TIM1_BKIN
PD6/USART2_RX/SPI1_MOSI/I2S1_SD
PD8/USART3_TX/SPI1_SCK/I2S1_CK
PD9/USART3_RX/SPI1_NSS/I2S1_WS/TIM1_BKIN2
PF0-OSC_IN/TIM14_CH14
PF1-OSC_OUT/OSC_EN/ TIM15_CH1N
SW3
SW2
SW1
SW4
B11.1
B10.1
B1.1
PTT
USART_TX_2
USART_RX_2
B2.1
RS
R/W
EN1
Vref
C2 4.7uF
C3 0.1uF
C4 100nF
R30 5.1kOhms, 5%
VD1 BZV55C4V7
X1 DG126-5.0-02p
TSW
C6 0.01uF
R3 1kOhms, 5%
ZQ1 16 MHz
C7 22pF
C8 22pF
R5 1k
Y1
TRI-STATE
VDD
OUTPUT
GND
VCC4-F3E-16MHz
C9 0.01uF
X3
PTT
R6 1kOhms, 5%
C10 0.01uF
R31 5.1kOhms, 5%
BLM21AH102SN1D
VD2 BZV55C4V7
X4
DS
R7 5.1kOhms, 5%
C12 470pF
DG126-5.0-03p
X6
Program interface
SWDIO
SWCLK
X7
UART
R10 1kOhms, 5%
R11 1kOhms, 5%
USART_RX_1
USART_TX_1
Indicators
DS1
NHD-14432WG-BTFH-V#T
VSS
VDD
V0
RS
R/W
E
DB0
DB1
DB2
DB3
DB4
DB5
DB6
DB7
LED+
LED-
SHIELD
C11 10uF 6.3V
R9 5kOhms
R8 10Ohms
X5
DB7
DB5
DB6
DB4
EN1
RS
R/W
EN2
LED+
+5V
DD1
SN74LVC1G17DBVR
VCC
A
Y
N.C
C54 0.1uF
Title
Size
A4
Number
Revision
Date:
4.25.2023
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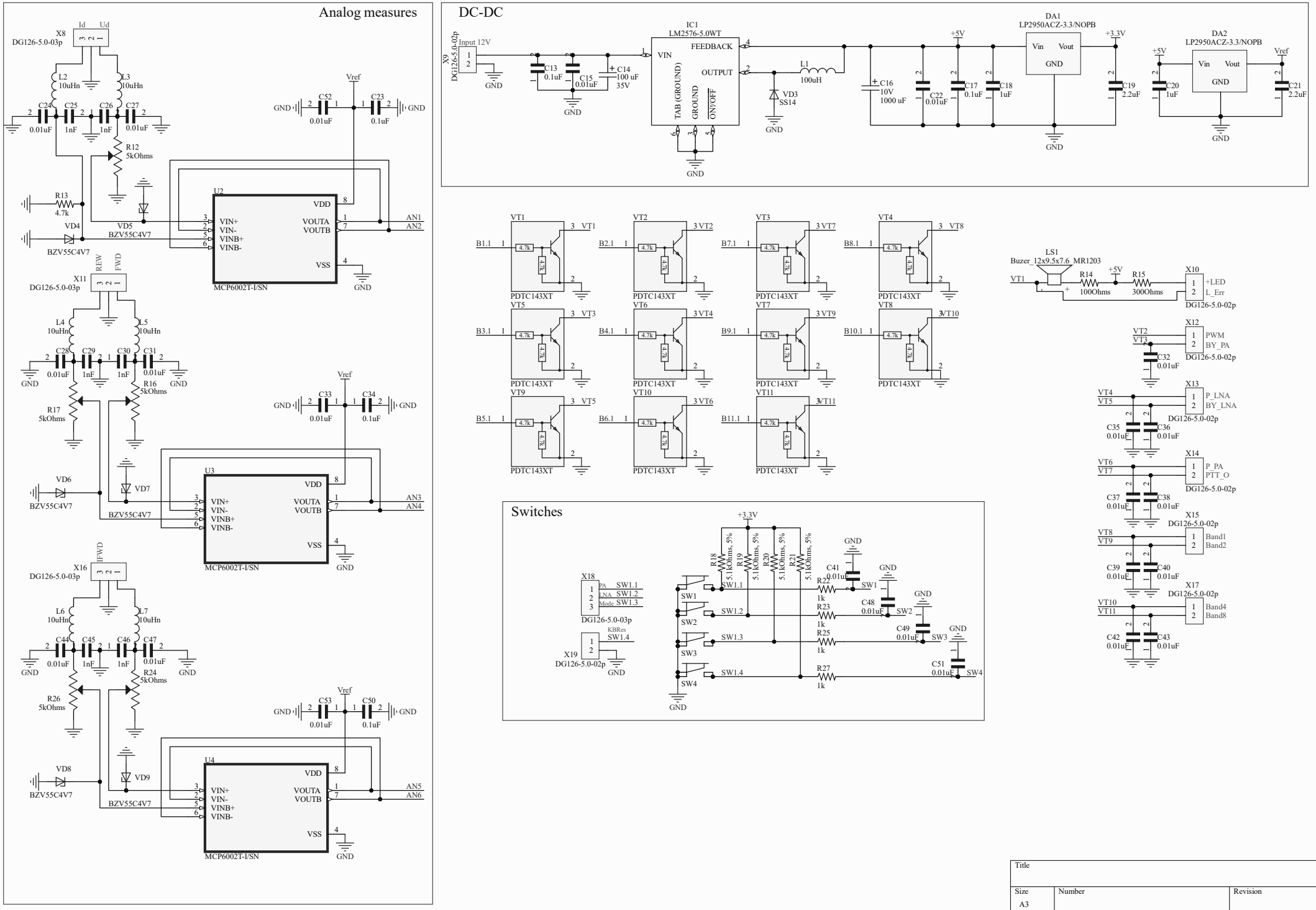
Analog measures
DC-DC
Switches
X8
DG126-5.0-03p
Id
Ud
X11
X16
REW
FWD
IFWD
L2
10uHn
L3
L4
L5
L6
L7
C24
C25
C26
C27
C28
C29
C30
C31
C44
C45
C46
C47
0.01uF
1nF
R12
5kOhms
R13
4.7k
R16
R17
R24
R26
VD4
VD5
VD6
VD7
VD8
VD9
BZV55C4V7
Vref
C52
C23
C33
C34
C53
C50
0.1uF
U2
U3
U4
MCP6002T-I/SN
VDD
VIN+
VIN-
VINB+
VINB-
VOUTA
VOUTB
VSS
AN1
AN2
AN3
AN4
AN5
AN6
GND
X9
DG126-5.0-02p
Input 12V
C13
C15
C14
100 uF
35V
IC1
LM2576-5.0WT
VIN
FEEDBACK
OUTPUT
TAB (GROUND)
GROUND
ON/OFF
L1
100uH
VD3
SS14
C16
10V
1000 uF
C22
C17
C18
1uF
C19
2.2uF
+5V
+3.3V
DA1
LP2950ACZ-3.3/NOPB
Vin
Vout
DA2
C20
C21
VT1
VT2
VT3
VT4
VT5
VT6
VT7
VT8
VT9
VT10
VT11
B1.1
B2.1
B3.1
B4.1
B5.1
B6.1
B7.1
B8.1
B9.1
B10.1
B11.1
4.7k
PDTC143XT
LS1
Buzer_12x9.5x7.6_MR1203
R14
100Ohms
R15
300Ohms
X10
+LED
L_Err
DG126-5.0-02p
X12
PWM
BY_PA
C32
0.01uF
X13
P_LNA
BY_LNA
C35
C36
X14
P_PA
PTT_O
C37
C38
X15
Band1
Band2
C39
C40
X17
Band4
Band8
C42
C43
X18
PA
LNA
Mode
SW1.1
SW1.2
SW1.3
DG126-5.0-03p
X19
KBRes
SW1.4
DG126-5.0-02p
R18
R19
R20
R21
5.1kOhms, 5%
R22
R23
R25
R27
1k
C41
C48
C49
C51
SW1
SW2
SW3
SW4
Title
Size
A3
Number
Revision
Date:
4.25.2023
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File:
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