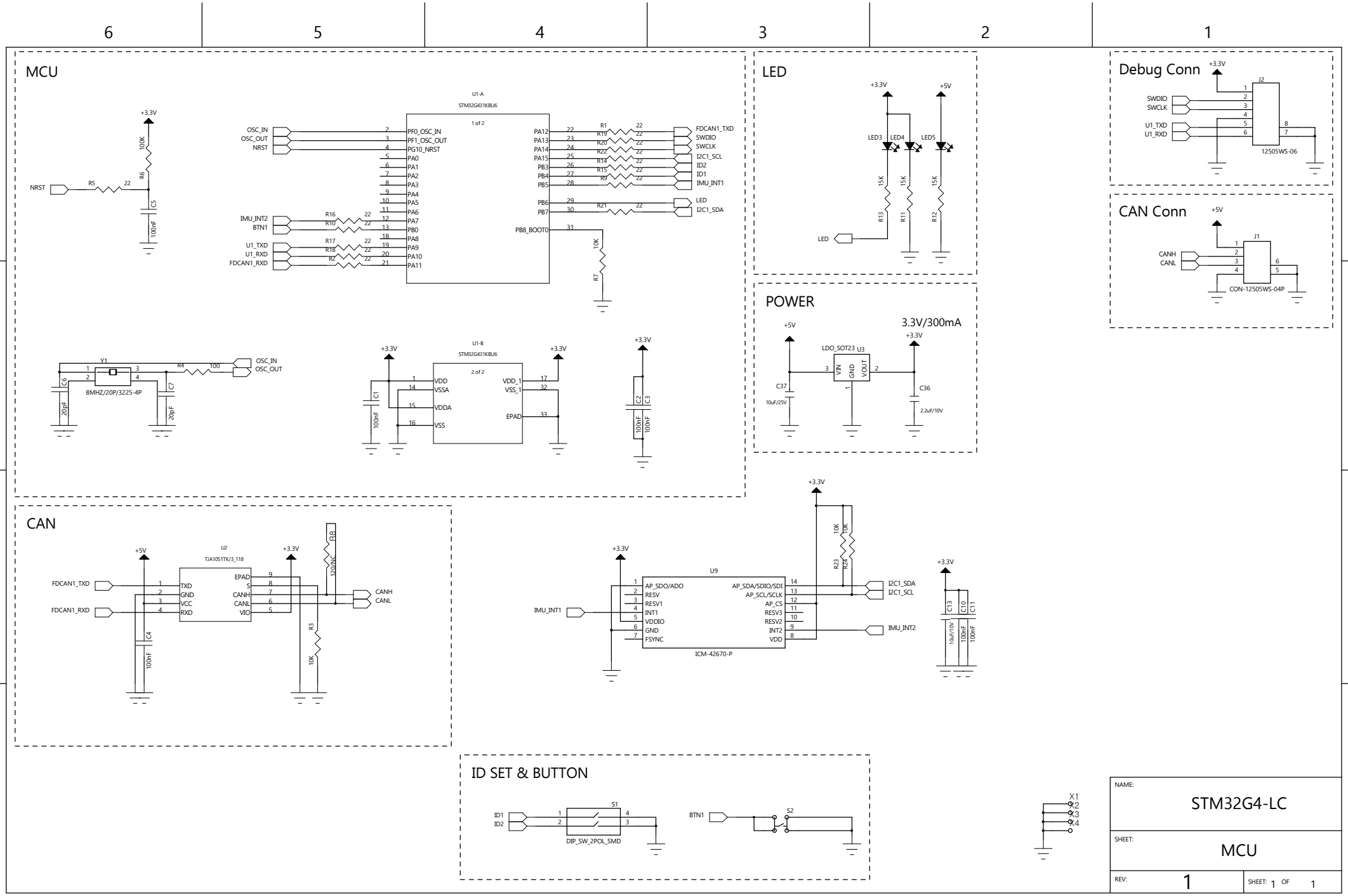
MCU
U1-A
STM32G431KBU6
1 of 2
OSC_IN
OSC_OUT
NRST
PF0_OSC_IN
PF1_OSC_OUT
PG10_NRST
PA0
PA1
PA2
PA3
PA4
PA5
PA6
PA7
PB0
PA8
PA9
PA10
PA11
PA12
PA13
PA14
PA15
PB3
PB4
PB5
PB6
PB7
PB8_BOOT0
IMU_INT2
BTN1
U1_TXD
U1_RXD
FDCAN1_RXD
FDCAN1_TXD
SWDIO
SWCLK
I2C1_SCL
ID2
ID1
IMU_INT1
LED
I2C1_SDA
+3.3V
100K
R6
R5
22
C5
100nF
Y1
8MHZ/20P/3225-4P
R4
100
C6
C7
20pF
U1-B
STM32G431KBU6
2 of 2
VDD
VSSA
VDDA
VSS
VDD_1
VSS_1
EPAD
C1
C2
C3
LED
+3.3V
+5V
LED3
LED4
LED5
15K
R13
R11
R12
POWER
3.3V/300mA
LDO_SOT23
U3
VIN
GND
VOUT
C37
10uF/25V
C36
2.2uF/10V
Debug Conn
J2
SWDIO
SWCLK
U1_TXD
U1_RXD
12505WS-06
CAN Conn
J1
CANH
CANL
CON-12505WS-04P
CAN
U2
TJA1051TK/3_118
TXD
GND
VCC
RXD
EPAD
CANH
CANL
VIO
FDCAN1_TXD
FDCAN1_RXD
C4
100nF
R3
10K
R8
120ohm
U9
ICM-42670-P
AP_SDO/ADO
RESV
RESV1
INT1
VDDIO
GND
FSYNC
AP_SDA/SDIO/SDI
AP_SCL/SCLK
AP_CS
RESV3
RESV2
INT2
VDD
IMU_INT1
IMU_INT2
I2C1_SDA
I2C1_SCL
R23
R24
C13
C10
C11
10uF/10V
ID SET & BUTTON
S1
DIP_SW_2POL_SMD
ID1
ID2
BTN1
S2
X1
NAME:
STM32G4-LC
SHEET:
MCU
REV:
1
SHEET: 1 OF 1