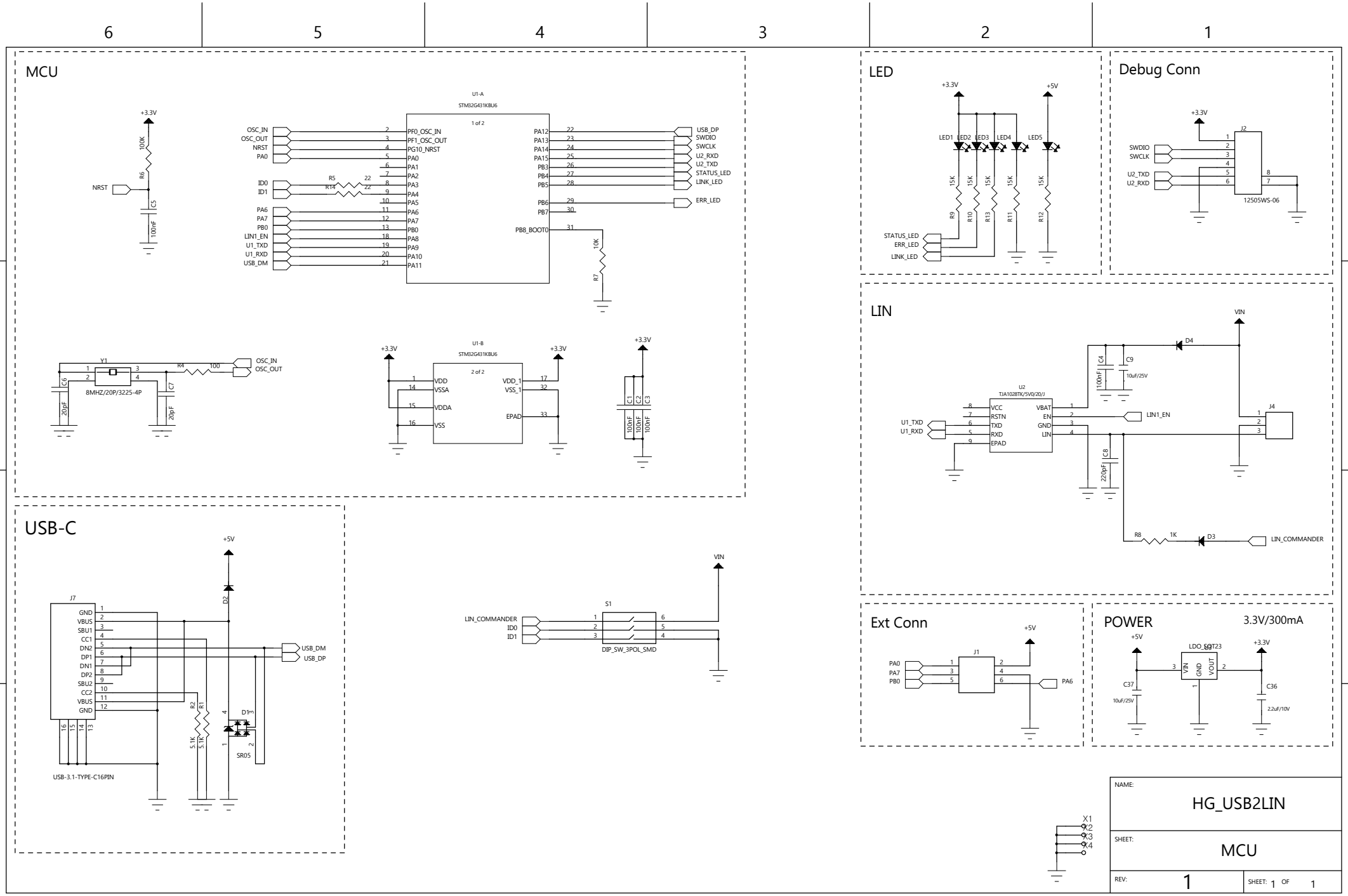
MCU
U1-A
STM32G431KBU6
1 of 2
OSC_IN
OSC_OUT
NRST
PA0
ID0
ID1
PA6
PA7
PB0
LIN1_EN
U1_TXD
U1_RXD
USB_DM
PF0_OSC_IN
PF1_OSC_OUT
PG10_NRST
PA12
PA13
PA14
PA15
PB3
PB4
PB5
PB6
PB7
PB8_BOOT0
USB_DP
SWDIO
SWCLK
U2_RXD
U2_TXD
STATUS_LED
LINK_LED
ERR_LED
+3.3V
100K
R6
C5
100nF
R5
R14
22
10K
R7
Y1
8MHZ/20P/3225-4P
R4
100
C6
C7
20pF
U1-B
STM32G431KBU6
2 of 2
VDD
VSSA
VDDA
VSS
VDD_1
VSS_1
EPAD
C1
C2
C3
LED
LED1
LED2
LED3
LED4
LED5
+5V
15K
R9
R10
R13
R11
R12
Debug Conn
J2
12505WS-06
LIN
VIN
D4
C4
C9
10uF/25V
U2
TJA1028TK/5V0/20/J
VCC
RSTN
TXD
RXD
EPAD
VBAT
EN
GND
LIN
J4
C8
220pF
R8
1K
D3
LIN_COMMANDER
USB-C
J7
GND
VBUS
SBU1
CC1
DN2
DP1
DN1
DP2
SBU2
CC2
D2
R2
R1
5.1K
D1
SR05
USB-3.1-TYPE-C16PIN
S1
DIP_SW_3POL_SMD
Ext Conn
J1
PA0
PA7
PB0
PA6
POWER
3.3V/300mA
LDO_SOT23
VIN
GND
VOUT
C37
10uF/25V
C36
2.2uF/10V
X1
X2
X3
X4
NAME:
HG_USB2LIN
SHEET:
MCU
REV:
1
SHEET: 1 OF 1