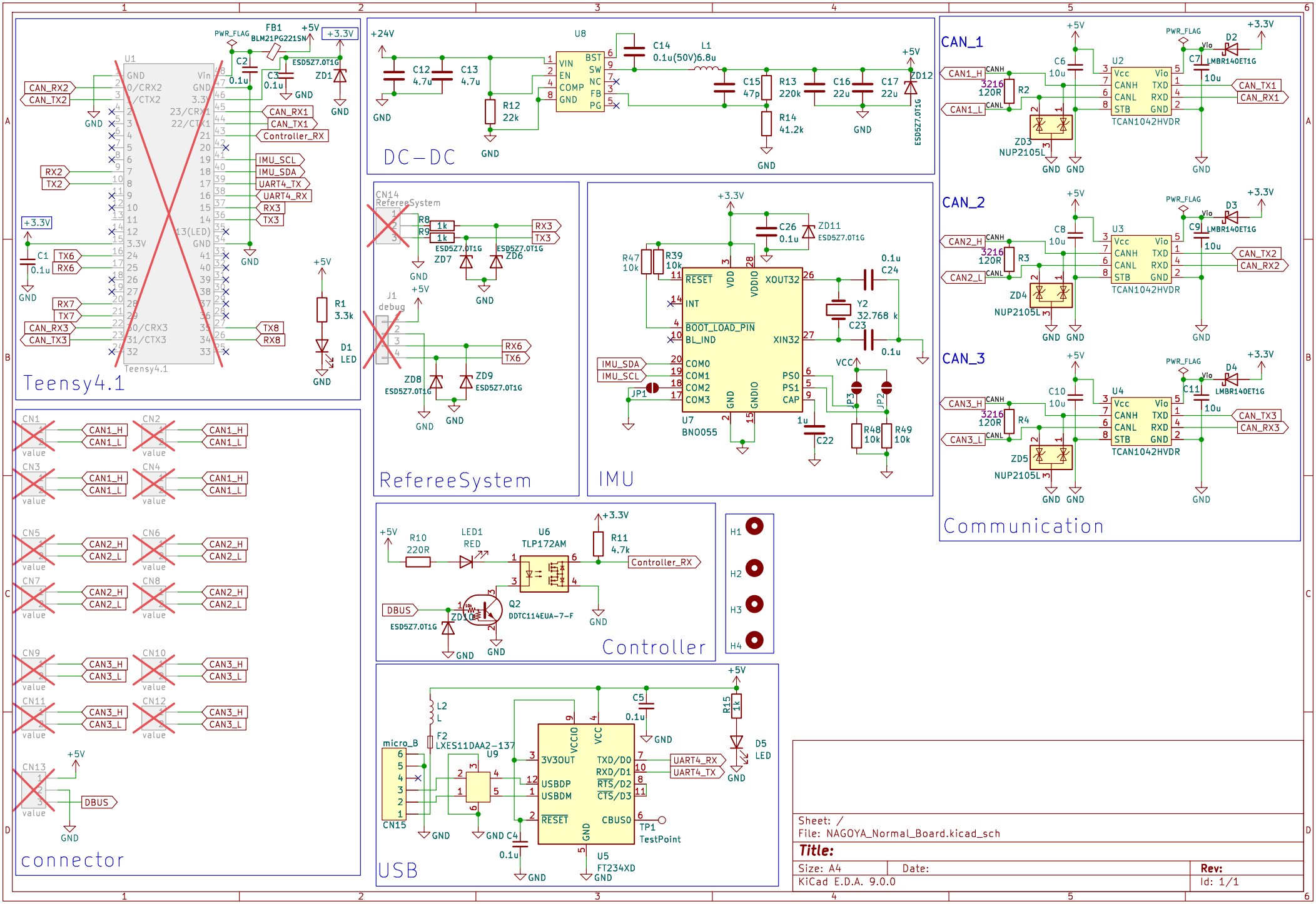
Teensy4.1
U1
Teensy4.1
CAN_RX2
CAN_TX2
RX2
TX2
TX6
RX6
RX7
TX7
CAN_RX3
CAN_TX3
Controller_RX
IMU_SCL
IMU_SDA
UART4_TX
UART4_RX
RX3
TX3
TX8
RX8
FB1
BLM21PG221SN
PWR_FLAG
+5V
+3.3V
ESD5Z7.0T1G
ZD1
R1
3.3k
D1
LED
DC-DC
U8
+24V
C12
4.7u
C13
4.7u
R12
22k
C14
0.1u(50V)
L1
6.8u
C15
47p
R13
220k
R14
41.2k
C16
22u
C17
22u
ZD12
RefereeSystem
CN14
RefereeSystem
R8
R9
1k
ZD7
ZD6
J1
debug
ZD8
ZD9
IMU
U7
BNO055
RESET
INT
BOOT_LOAD_PIN
BL_IND
COM0
COM1
COM2
COM3
VDD
VDDIO
XOUT32
XIN32
PS0
PS1
CAP
GND
GNDIO
R47
10k
R39
10k
C26
0.1u
ZD11
C24
Y2
32.768 k
C23
C22
1u
R48
10k
R49
10k
JP1
JP2
VCC
Controller
U6
TLP172AM
R10
220R
LED1
RED
R11
4.7k
Q2
DDTC114EUA-7-F
DBUS
H1
H2
H3
H4
Communication
CAN_1
CAN_2
CAN_3
CAN1_H
CAN1_L
CAN2_H
CAN2_L
CAN3_H
CAN3_L
CANH
CANL
3216
120R
R2
R3
R4
ZD3
ZD4
ZD5
NUP2105L
U2
U3
U4
TCAN1042HVDR
Vcc
CANH
CANL
STB
Vio
TXD
RXD
GND
C6
C8
C10
10u
C7
C9
C11
D2
D3
D4
LMBR140ET1G
CAN_TX1
CAN_RX1
CAN_TX2
CAN_RX2
CAN_TX3
CAN_RX3
connector
CN1
CN2
CN3
CN4
CN5
CN6
CN7
CN8
CN9
CN10
CN11
CN12
CN13
value
DBUS
USB
micro_B
CN15
L2
L
F2
LXES11DAA2-137
U9
3V3OUT
USBDP
USBDM
RESET
VCCIO
VCC
TXD/D0
RXD/D1
RTS/D2
CTS/D3
CBUS0
UART4_RX
UART4_TX
TP1
TestPoint
U5
FT234XD
C4
C5
R15
1k
D5
LED
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Date:
Rev:
KiCad E.D.A. 9.0.0
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