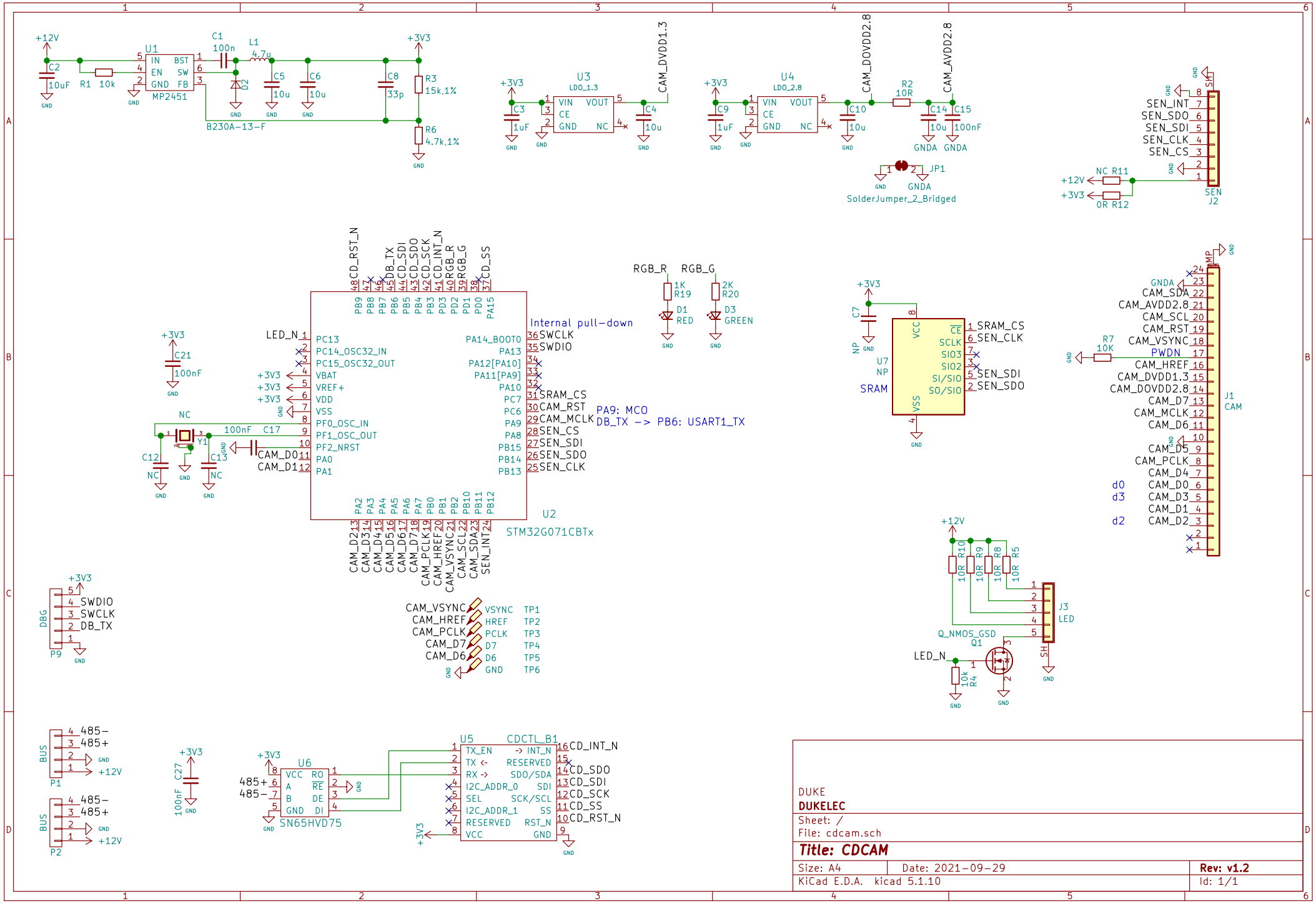
U1
MP2451
IN
BST
EN
SW
GND
FB
+12V
C2
10uF
R1
10k
C1
100n
L1
4.7u
D2
B230A-13-F
C5
10u
C6
10u
C8
33p
+3V3
R3
15k,1%
R6
4.7k,1%
U3
LDO_1.3
VIN
VOUT
CE
GND
NC
C3
1uF
C4
10u
CAM_DVDD1.3
U4
LDO_2.8
C9
1uF
C10
10u
CAM_DOVDD2.8
R2
10R
C14
10u
C15
100nF
CAM_AVDD2.8
GNDA
JP1
SolderJumper_2_Bridged
SEN_INT
SEN_SDO
SEN_SDI
SEN_CLK
SEN_CS
SH
SEN
J2
NC R11
0R R12
U2
STM32G071CBTx
CD_RST_N
DB_TX
CD_SDI
CD_SDO
CD_SCK
CD_INT_N
RGB_R
RGB_G
CD_SS
LED_N
PC13
PC14_OSC32_IN
PC15_OSC32_OUT
VBAT
VREF+
VDD
VSS
PF0_OSC_IN
PF1_OSC_OUT
PF2_NRST
PA0
PA1
PA14_BOOT0
PA13
PA12[PA10]
PA11[PA9]
PA10
PC7
PC6
PA9
PA8
PB15
PB14
PB13
Internal pull-down
SWCLK
SWDIO
SRAM_CS
CAM_RST
CAM_MCLK
SEN_CS
SEN_SDI
SEN_SDO
SEN_CLK
PA9: MCO
DB_TX -> PB6: USART1_TX
CAM_D0
CAM_D1
CAM_D2
CAM_D3
CAM_D4
CAM_D5
CAM_D6
CAM_D7
CAM_PCLK
CAM_HREF
CAM_VSYNC
CAM_SCL
CAM_SDA
SEN_INT
C21
100nF
NC
Y1
C17
100nF
C12
C13
1K
R19
2K
R20
D1
RED
D3
GREEN
C7
NP
U7
SRAM
VCC
CE
SCLK
SIO3
SIO2
SI/SIO
SO/SIO
VSS
SRAM_CS
SEN_CLK
SEN_SDI
SEN_SDO
MP
GNDA
CAM_SDA
CAM_AVDD2.8
CAM_SCL
CAM_RST
CAM_VSYNC
PWDN
CAM_HREF
CAM_DVDD1.3
CAM_DOVDD2.8
CAM_D7
CAM_MCLK
CAM_D6
CAM_D5
CAM_PCLK
CAM_D4
CAM_D0
CAM_D3
CAM_D1
CAM_D2
R7
10K
J1
CAM
d0
d3
d2
DBG
P9
SWDIO
SWCLK
DB_TX
CAM_VSYNC
CAM_HREF
CAM_PCLK
CAM_D7
CAM_D6
VSYNC
HREF
PCLK
D7
D6
GND
TP1
TP2
TP3
TP4
TP5
TP6
R10
R9
R8
R5
10R
J3
LED
Q_NMOS_GSD
Q1
LED_N
10k
R4
BUS
P1
P2
485-
485+
U6
SN65HVD75
VCC
RO
A
RE
B
DE
GND
DI
C27
100nF
U5
CDCTL_B1
TX_EN
TX <-
RX ->
I2C_ADDR_0
SEL
I2C_ADDR_1
RESERVED
VCC
INT_N
RESERVED
SDO/SDA
SDI
SCK/SCL
SS
RST_N
GND
CD_INT_N
CD_SDO
CD_SDI
CD_SCK
CD_SS
CD_RST_N
DUKE
DUKELEC
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File: cdcam.sch
Title: CDCAM
Size: A4
Date: 2021-09-29
Rev: v1.2
KiCad E.D.A. kicad 5.1.10
Id: 1/1