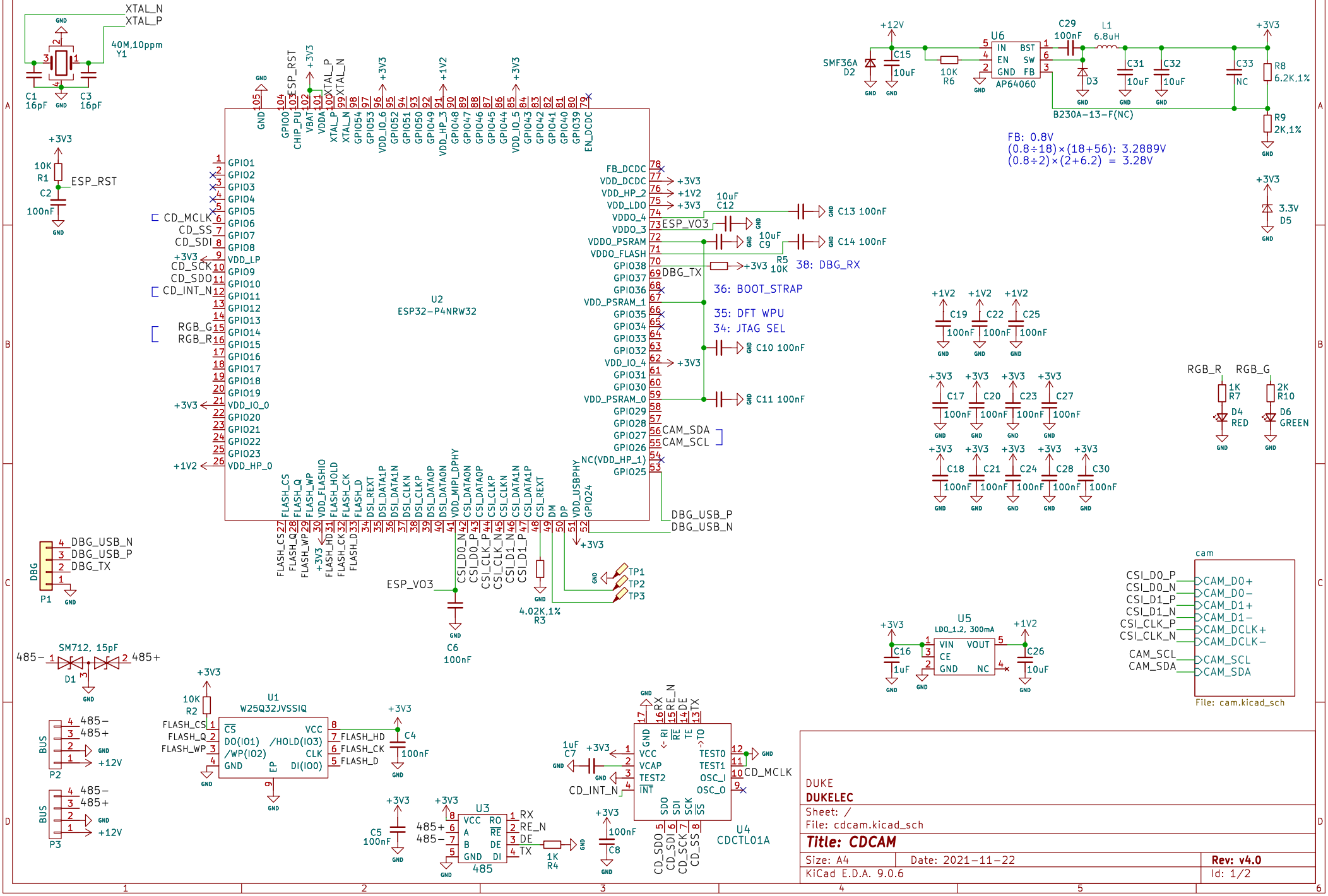
XTAL_N
XTAL_P
40M,10ppm
Y1
C1 16pF
C3 16pF
+3V3
10K R1
ESP_RST
C2 100nF
CD_MCLK
CD_SS
CD_SDI
CD_SCK
CD_SDO
CD_INT_N
RGB_G
RGB_R
U2
ESP32-P4NRW32
GPIO1
GPIO2
GPIO3
GPIO4
GPIO5
GPIO6
GPIO7
GPIO8
VDD_LP
GPIO9
GPIO10
GPIO11
GPIO12
GPIO13
GPIO14
GPIO15
GPIO16
GPIO17
GPIO18
GPIO19
VDD_IO_0
GPIO20
GPIO21
GPIO22
GPIO23
VDD_HP_0
FB_DCDC
VDD_DCDC
VDD_HP_2
VDD_LDO
VDDO_4
VDDO_3
VDDO_PSRAM
VDDO_FLASH
GPIO38
GPIO37
GPIO36
VDD_PSRAM_1
GPIO35
GPIO34
GPIO33
GPIO32
VDD_IO_4
GPIO31
GPIO30
VDD_PSRAM_0
GPIO29
GPIO28
GPIO27
GPIO26
NC(VDD_HP_1)
GPIO25
CAM_SDA
CAM_SCL
DBG_TX
ESP_VO3
10uF C12
C13 100nF
10uF C9
C14 100nF
R5 10K
38: DBG_RX
36: BOOT_STRAP
35: DFT WPU
34: JTAG SEL
C10 100nF
C11 100nF
DBG_USB_P
DBG_USB_N
FLASH_CS
FLASH_Q
FLASH_WP
VDD_FLASHIO
FLASH_HOLD
FLASH_CK
FLASH_D
DSI_REXT
DSI_DATA1P
DSI_DATA1N
DSI_CLKN
DSI_CLKP
DSI_DATA0P
DSI_DATA0N
VDD_MIPI_DPHY
CSI_DATA0N
CSI_DATA0P
CSI_CLKP
CSI_CLKN
CSI_DATA1N
CSI_DATA1P
CSI_REXT
DM
DP
VDD_USBPHY
GPIO24
TP1
TP2
TP3
4.02K,1% R3
C6 100nF
DBG
P1
SM712, 15pF
485-
485+
D1
U1
W25Q32JVSSIQ
10K R2
C4 100nF
P2
P3
BUS
+12V
C5 100nF
U3
485
1K R4
U4
CDCTL01A
1uF C7
100nF C8
+12V
SMF36A D2
C15 10uF
10K R6
U6
AP64060
C29 100nF
L1 6.8uH
C31 10uF
C32 10uF
C33 NC
R8 6.2K,1%
R9 2K,1%
D3
B230A-13-F(NC)
FB: 0.8V
(0.8÷18)×(18+56): 3.2889V
(0.8÷2)×(2+6.2) = 3.28V
3.3V D5
C19 100nF
C22 100nF
C25 100nF
C17 100nF
C20 100nF
C23 100nF
C27 100nF
C18 100nF
C21 100nF
C24 100nF
C28 100nF
C30 100nF
RGB_R
RGB_G
1K R7
2K R10
D4 RED
D6 GREEN
U5
LDO_1.2, 300mA
VIN
VOUT
CE
GND
NC
C16 1uF
C26 10uF
cam
CAM_D0+
CAM_D0-
CAM_D1+
CAM_D1-
CAM_DCLK+
CAM_DCLK-
CAM_SCL
CAM_SDA
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DUKE
DUKELEC
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Title: CDCAM
Size: A4
Date: 2021-11-22
Rev: v4.0
KiCad E.D.A. 9.0.6
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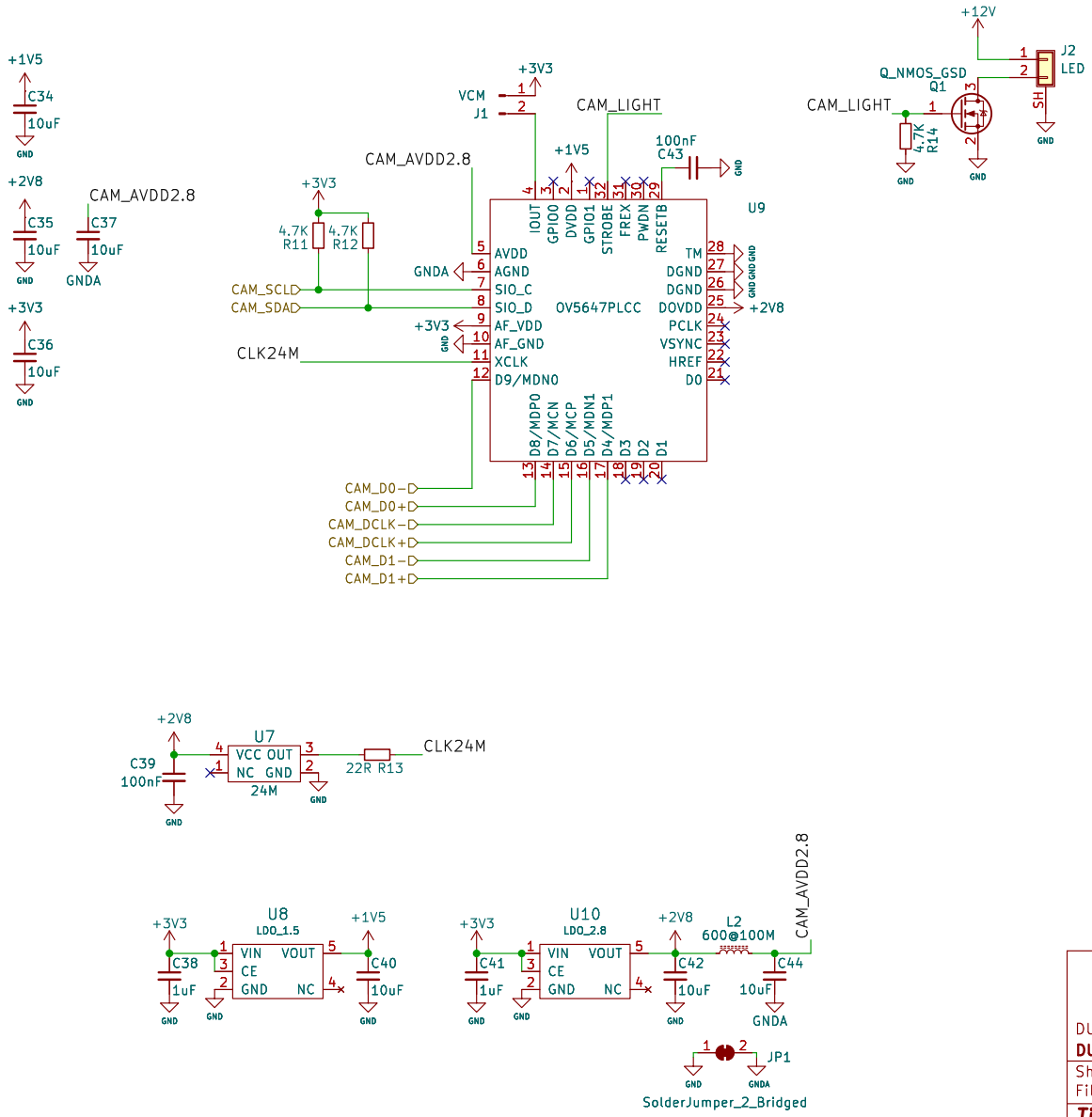

DUKE
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Title: CDCAM

Size: A4	Date: 2021-11-22	**Rev: v4.0**
KiCad E.D.A. 9.0.6		Id: 3/2