ESP Optoisolated Programmer HV2

USB Connector
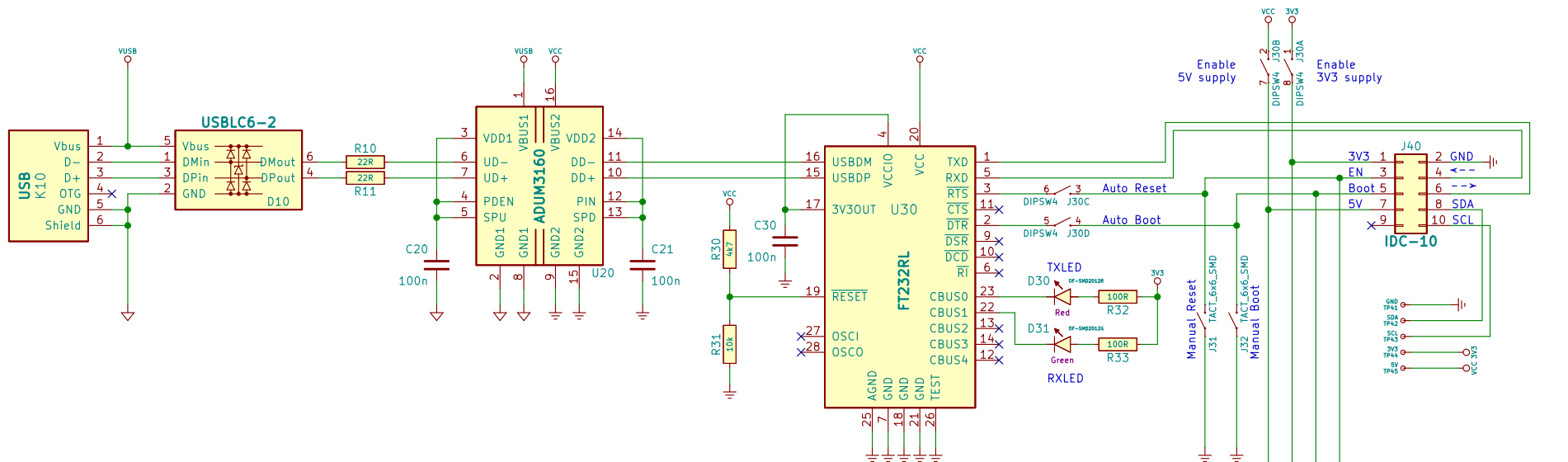
Protection diodes

Signal separator

USB/UART bridge

Config switches
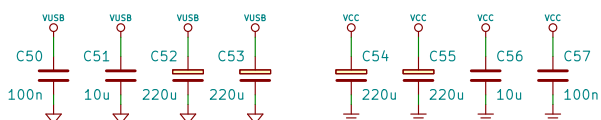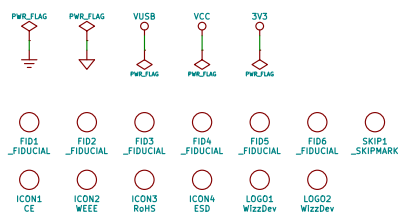
Programmer connector

USB
K10

USBLC6-2

R10 22R
R11 22R

ADUM3160
U20

FT232RL
U30

C20 100n
C21 100n

C30 100n

R30 4k7
R31 10k

TXLED
D30 Red OF-SMD2012R
R32 100R

RXLED
D31 Green OF-SMD2012G
R33 100R

Enable
5V supply

Enable
3V3 supply

DIPSW4 J30B
DIPSW4 J30A

Auto Reset
DIPSW4 J30C

Auto Boot
DIPSW4 J30D

J40
IDC-10

Manual Reset
J31 TACT_6x6_SMD

Manual Boot
J32 TACT_6x6_SMD

GND TP41
SDA TP42
SCL TP43
3V3 TP44
5V TP45

Miscellaneous

PWR_FLAG PWR_FLAG VUSB VCC 3V3

FID1 _FIDUCIAL
FID2 _FIDUCIAL
FID3 _FIDUCIAL
FID4 _FIDUCIAL
FID5 _FIDUCIAL
FID6 _FIDUCIAL
SKIP1 _SKIPMARK

ICON1 CE
ICON2 WEEE
ICON3 RoHS
ICON4 ESD
LOGO1 WizzDev
LOGO2 WizzDev

Power separator

AM2S-0505SZ
U50

3.3V Voltage regulator

1117-3.3
U60

C60 1u
C61 100n
C62 100n

Status LEDs

D70 White OF-SMD2012W
D71 White OF-SMD2012W
D72 White OF-SMD2012W

R70 2k2
R71 2k2
R72 1k

D73 Yellow OF-SMD2012Y
R74 100R
R73 10k
T70 BC857

D74 Yellow OF-SMD2012Y
R76 100R
R75 10k
T71 BC857

C50 100n
C51 10u
C52 220u
C53 220u
C54 220u
C55 220u
C56 10u
C57 100n