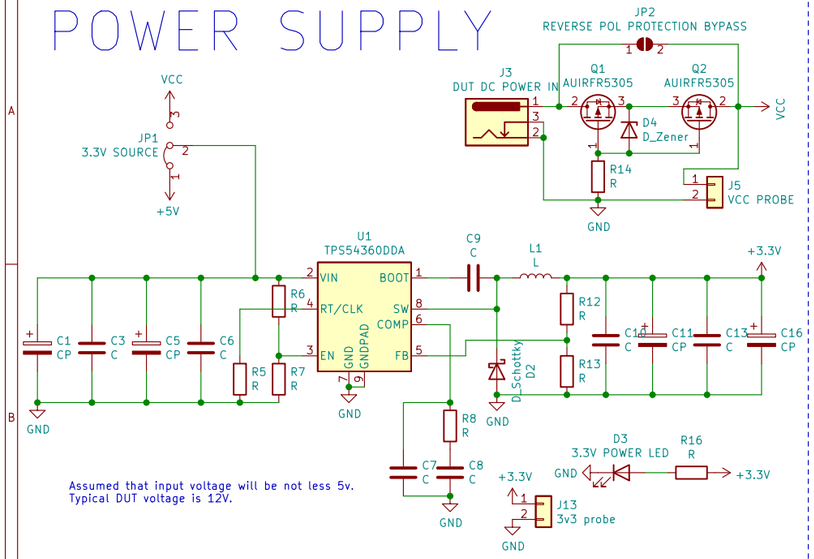
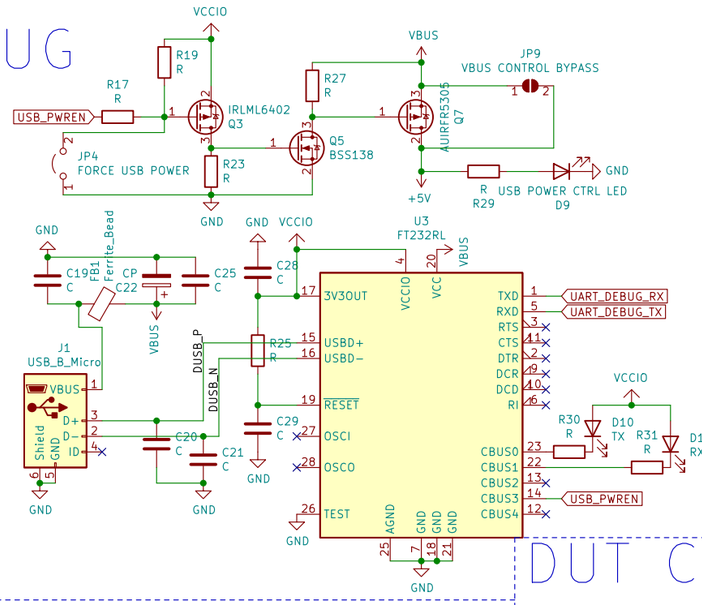
POWER SUPPLY



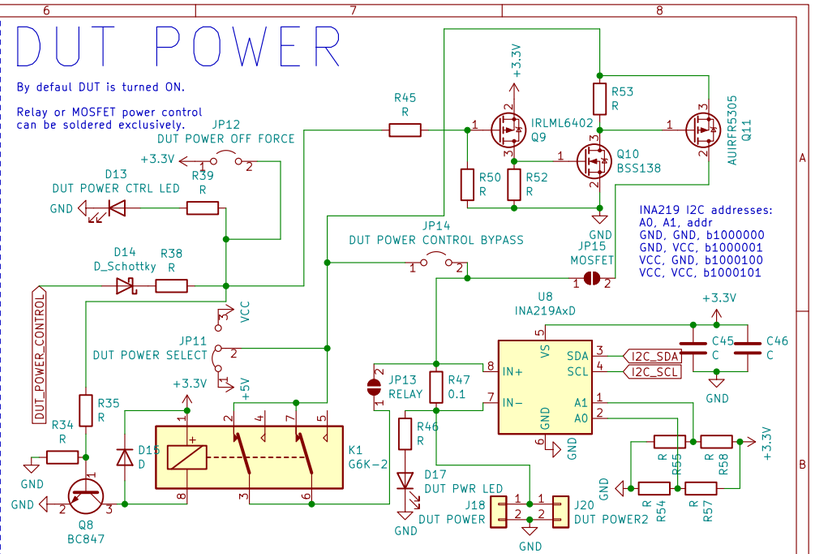
DEBUG



DUT POWER

By defaul DUT is turned ON.

Relay or MOSFET power control
can be soldered exclusively.



Camera Debug Facility

Device represents hands free remote embedded development conception.

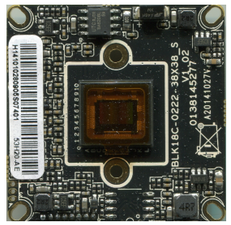
Typical DUT has debug IART port, spi nor (rarely nand) flash ROM and Fast Ethernet.
Software stack is U-Boot + Linux based OS.

During debug developer usually many times completely reupload full ROM image,
use UART as main control and network connection on last stages of software development.

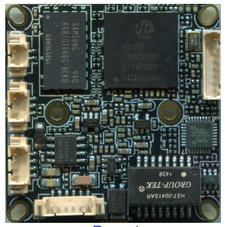
Usually such process involves DUT on developer's table. This device eliminates this requirement.
Developer and DUT can be placed anywhere in separate locations connected via Internet.

Implementation tuned to satisfy basic needs for
typical 38x38mm cctv ip camera module development/debug.

Typical DUT (Device Under Test):

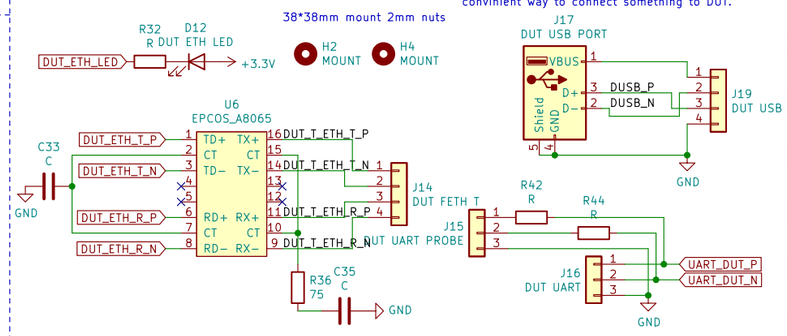


Front



Back

DUT CON

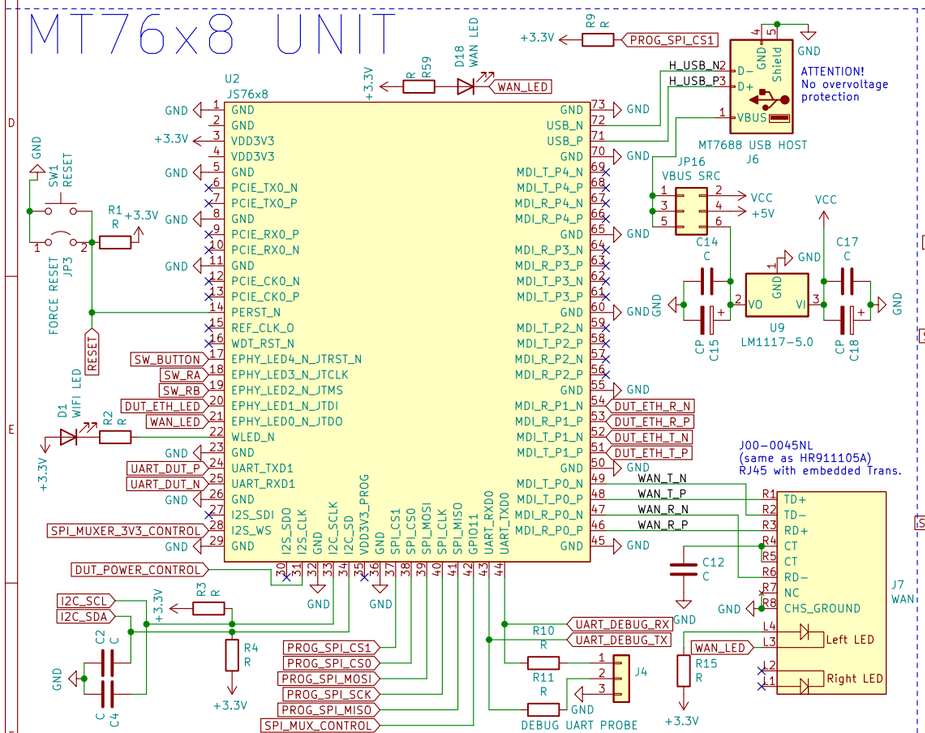


MISC

Mount holes
in the corners of the PCBA.

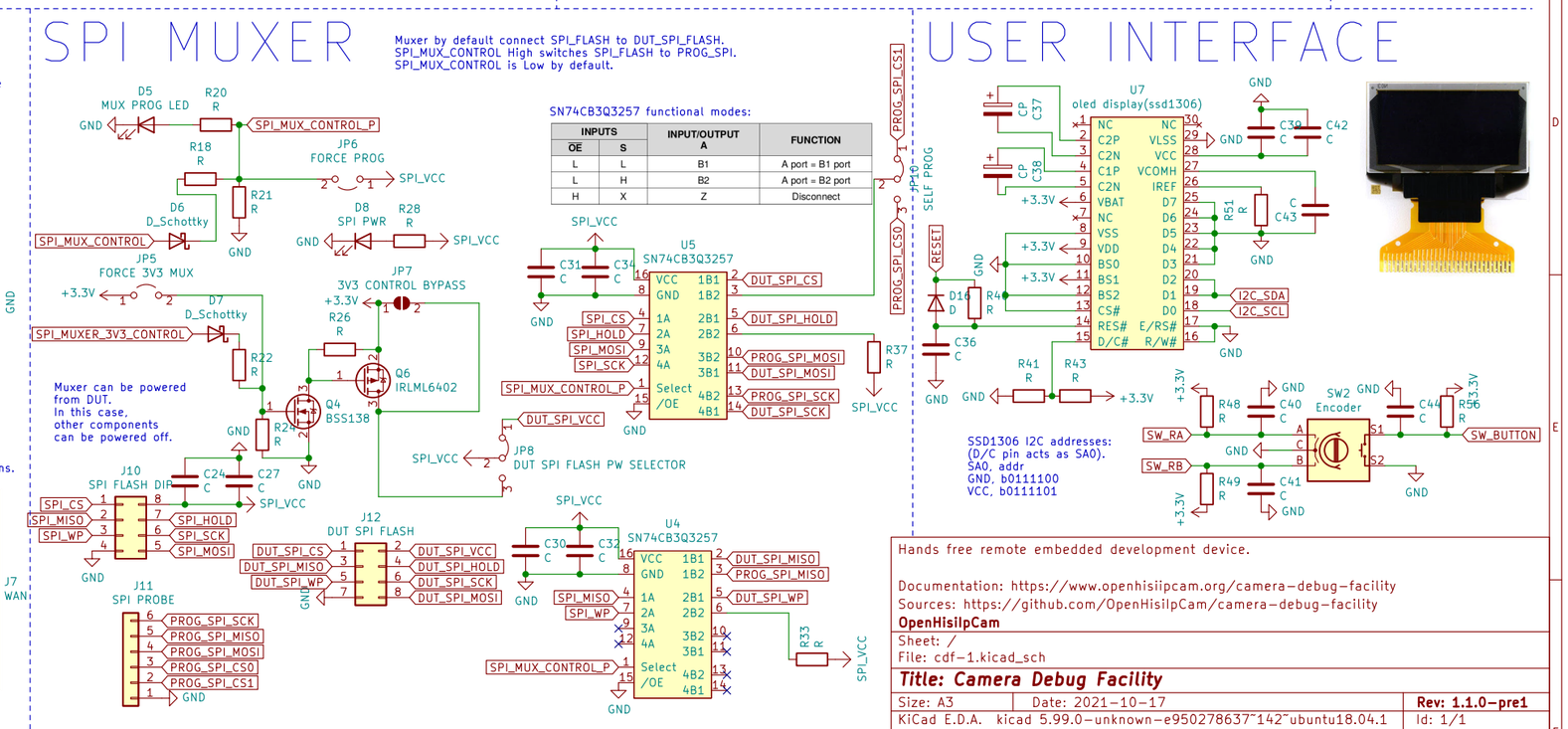
H5 3mm HOLE
H7 3mm HOLE
H6 3mm HOLE
H8 3mm HOLE

MT76x8 UNIT



SPI MUXER

Muxer by default connect SPI_FLASH to DUT_SPI_FLASH.
SPI_MUX_CONTROL High switches SPI_FLASH to PROG_SPI.
SPI_MUX_CONTROL is Low by default.



USER INTERFACE

Hands free remote embedded development device.	
Documentation: https://www.openhisiipcam.org/camera-debug-facility	
Sources: https://github.com/OpenHisiIpCam/camera-debug-facility	
OpenHisiIpCam	
Sheet: /	
File: cdf-1.kicad_sch	
Title: Camera Debug Facility	
Size: A3	Date: 2021-10-17 — **Rev: 1.1.0-pre1**
KiCad E.D.A. kicad 5.99.0-unknown-e950278637~142~ubuntu18.04.1	Id: 1/1