

Important: Black Pill 5V pins 18 and 40 are power INPUT pins whereas 3.3V pins 20 and 38 are power OUTPUT pins from the onboard 3.3V LDO regulator, and can supply up to 100mA current.

STM32 GPSDO by AndrewBCN  
with optional OLED display, sensors  
and Bluetooth module

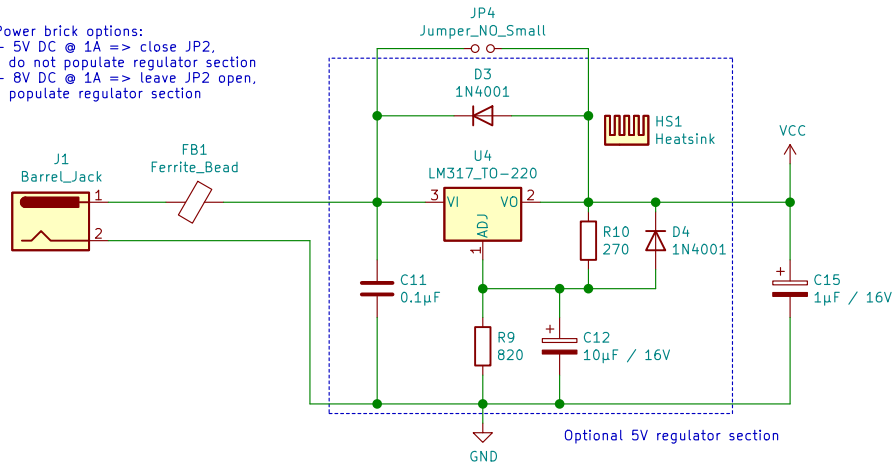


Sheet: GPSDO Extras

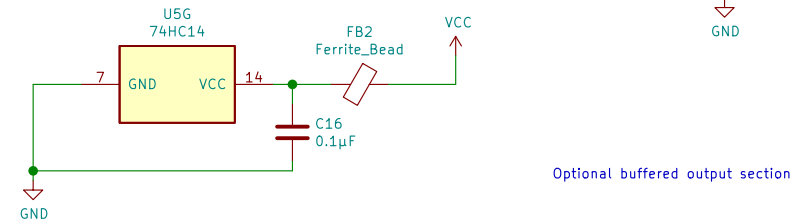
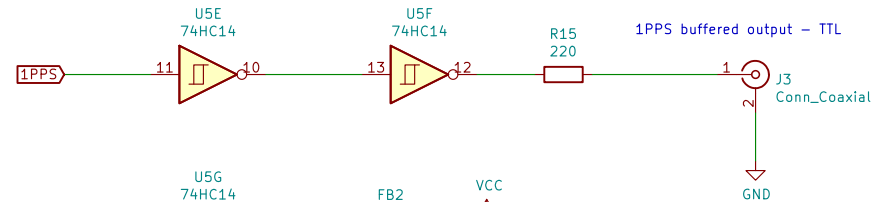
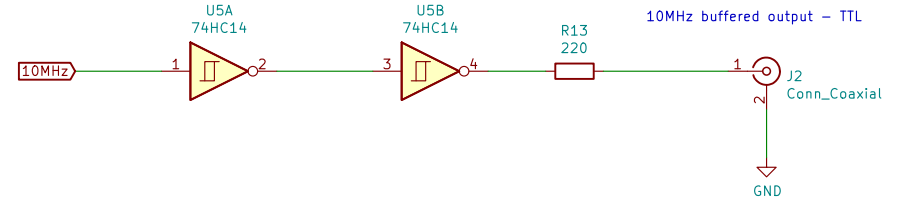
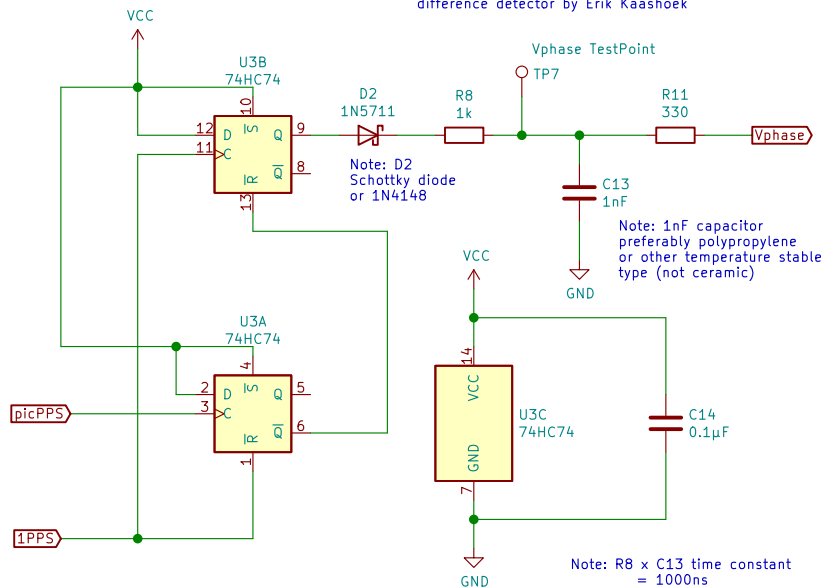
File: GPSDO-extras.sch

Power brick options:

- 5V DC @ 1A => close JP2, do not populate regulator section
- 8V DC @ 1A => leave JP2 open, populate regulator section



Optional experimental 1ns resolution phase difference detector by Erik Kaashoek



Sheet: GPSDO Extras 2

File: GPSDO-extras2.sch

- H1 MountingHole
- H2 MountingHole
- H3 MountingHole
- H4 MountingHole
- H5 MountingHole

STM32 GPSDO by AndrewBCN  
Power supply, output buffers and  
1ns resolution phase detector



