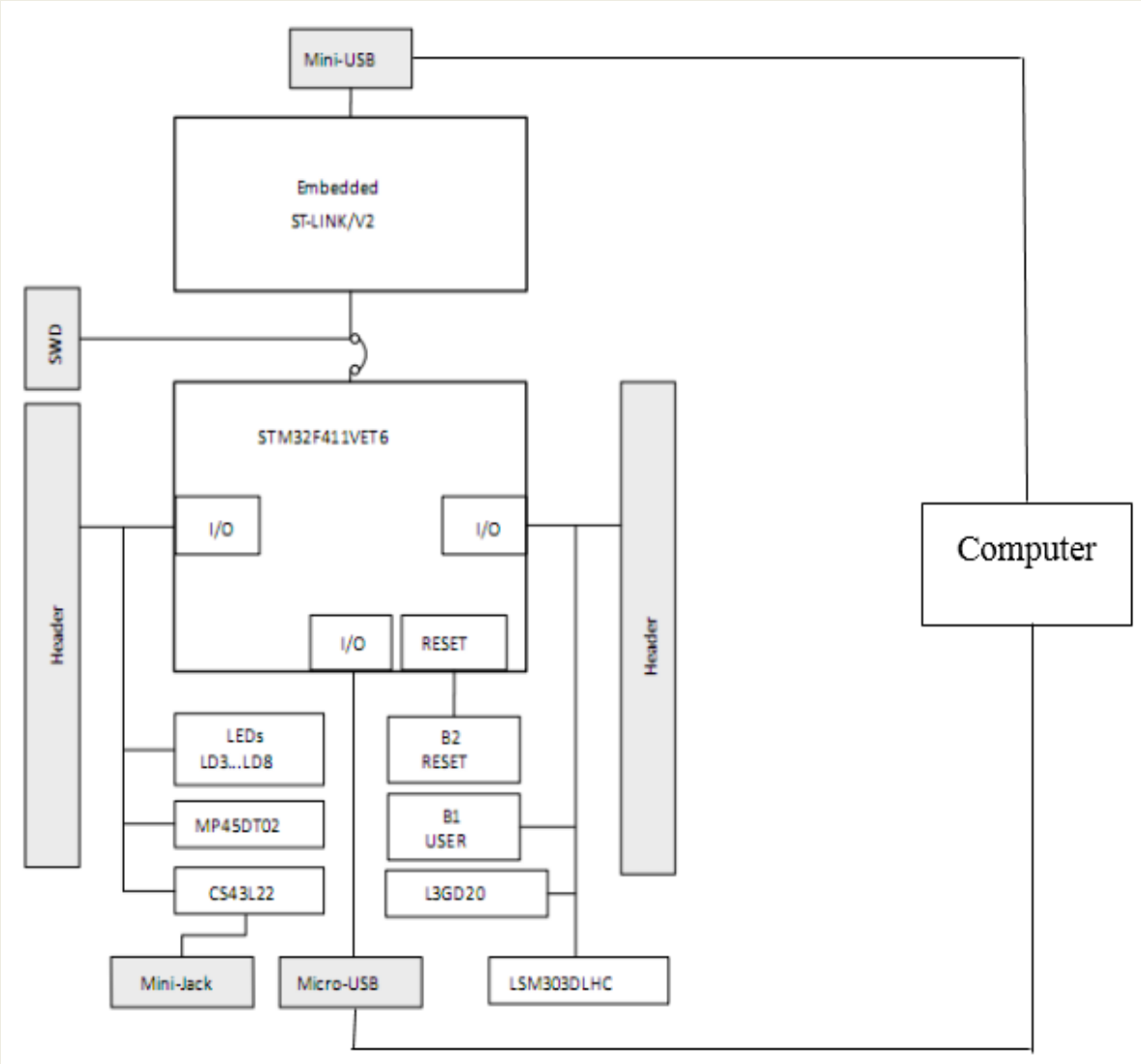
The STM32F411 Discovery Kit


Mini-USB
Embedded
ST-LINK/V2
SWD
STM32F411VET6
I/O
I/O
I/O
RESET
Header
Header
LEDs
LD3...LD8
MP45DT02
CS43L22
B2
RESET
B1
USER
L3GD20
Mini-Jack
Micro-USB
LSM303DLHC
Computer

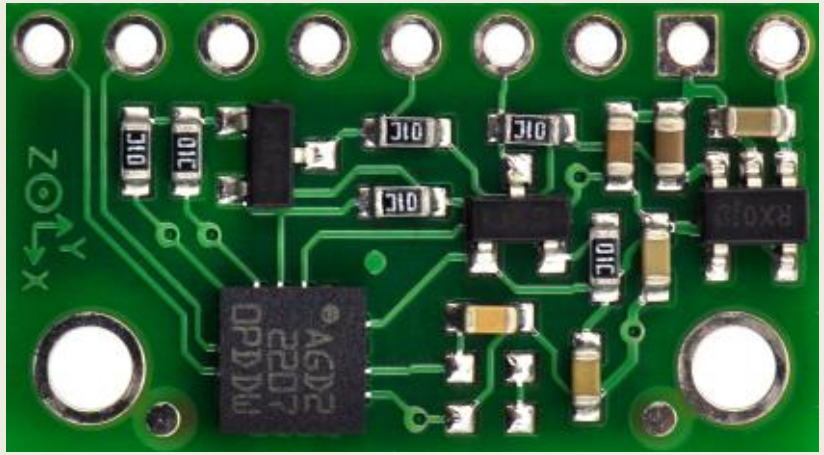

STM32F411E-DISCO
www.st.com/stm32f4-discovery
MB1115B
STM32F411VET6

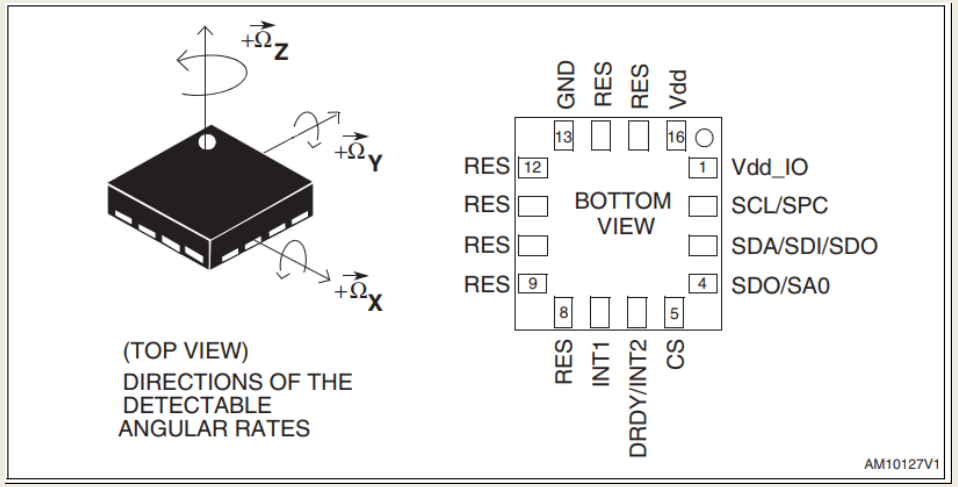
The STM32F411 Discovery board includes the following features:

- Flash memory (512 KB) and RAM (128 KB)
- 5 V for the board, 3 V and 5 V for the external
- ST-LINK/V2
- L3GD20: to measure gyroscope
- LSM303DLHC: for measuring acceleration and magnetic
- 8 LEDs to communication, power on, user, USB OTG
- 2 push buttons (for user and reset)
- SB OTG with micro-AB connector.

L3GD20 sensor

- A three-axis angular rate sensor
- Full scales of ± 250 /500/2000 degree per second
- The power supply is from 2.4 V to 3.6 V

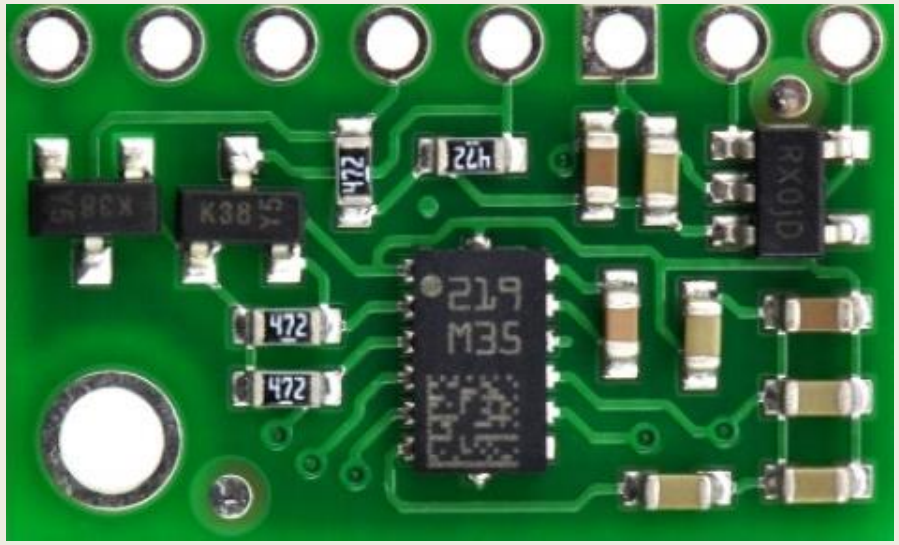




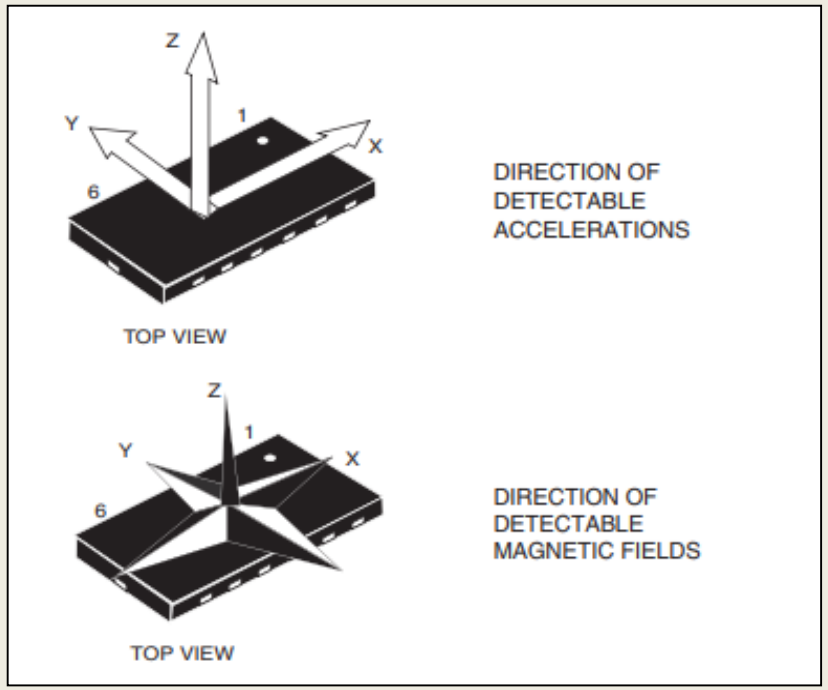
The direction of detectable angular rates

LSM303DLHC sensor

- 3D digital linear acceleration sensor with full scales of ± 2g/± 8g
- 3D digital magnetic sensor with full scale from ±1.3 to 8.1 gauss
- The power supply is from 2.16 to 3.6 V.

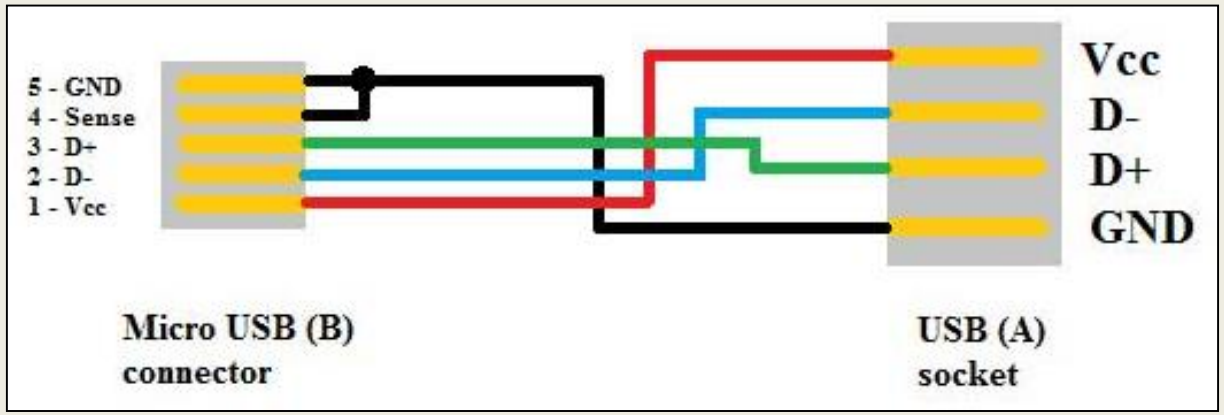


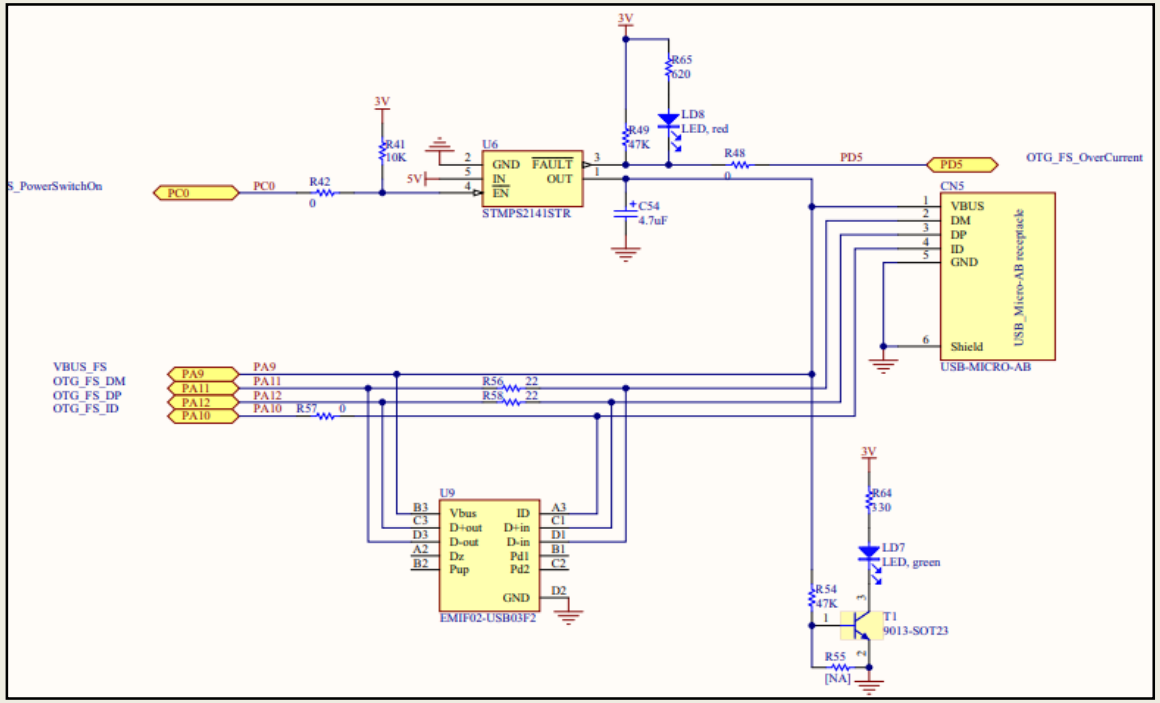
ST MEMS LSM303DLHC



USB OTG 2.0

The USB OTG contains the USB micro AB connector (CN5) to connect device component





This module has two LEDs:

- LD7 (VBUS is active)
- LD8 (Connected device)

Thanks for your reading

- Please, linking to the Instruction section to do step by step on Keil MDK. (The project folder attached)