MPU-6050

**MPU 6050 is a device which basically is used to detect or sense the motion of the machine attached to it.**

**It operates in voltage range of 2.375 to 3.29 volts.**

**It uses FIFO buffer to lower down the power consumption by bursting the data**

**It has-**

**1)accelometer**

**2)gyrometer**

**3)magnetometer**

**4)altimeter**

**5)DMP(Digital Motion Processor)**

**ACCELOMETER**

**Accelometer is 3 axis type which gives the 3D location of the machine in x,y,z coordinate system.The analog signal from accelometer is converted from analog to digital by 16 bit ADC.**

**GYROMETER**

**Gyrometer is also a 3 axis tyoe device which give the inclinaton of the machine. Here also analof signal is converted to digital by 16 bit ADC.**

**Digital Motion Processor(DMP)**

**Digital Motion Processor is used to manipulate the details and show the data in digital mode on the screen.**

**It supports 3D digital mapping of the object.**

**It also contains magnetometer and altimeter and a sensor which senses the temperature.**

**CONNECTIONS**

