

```
1
2 // L3G4200D
3
4 #ifndef _L3G4200D_h
5 #define _L3G4200D_h
6
7 #if defined(ARDUINO) && ARDUINO >= 100
8 #include "wprogram.h"
9 #else
10 #include "WProgram.h"
11 #endif
12
13 #include <SPI.h>
14
15 #define CLOCK_SPEED          4000000
16 #define CALIBRATE_TIME      600
17
18 float GetYaw();
19 float GetPitch();
20 float GetRoll();
21
22 float GetYawRate();
23 float GetPitchRate();
24 float GetRollRate();
25
26 float GetGyroElapsedTime();
27
28 void ClearAngles(float yaw, float pitch, float roll);
29 void SetGyroAngles(float yaw, float pitch, float roll);
30
31 float get_cal_x();
32 float get_cal_y();
33 float get_cal_z();
34
35 void init_L3G4200D();
36 void update_L3G4200D();
37 void Calibrate_Gyro();
38
39 int16_t getX();
40 int16_t getY();
41 int16_t getZ();
42
43 #endif
```