

NuMaker Brick Software Directory

Directory Introduction for 32-bit NuMicro® Family

Directory Information

NuMaker_Brick_BSP	Software information.
NuMaker_Brick_Arduino	Arduino information.
NuMaker_Brick_Android_App	Android Application information.
NuMaker_Brick_iOS_App	iOS Application information

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Support Series

M452/M453 series

Function Description

Provide a convenient, open networking platform for IoT developer. There are nine basic sensors and a extension board on this platform. User can define sensor trigger setting by APP.

Following is the sensors type.

- Battery sensor
- Buzzer sensor
- Vibration sensor
- Sonar sensor
- LED sensor
- Temperature and Humidity sensor
- IR sensor
- Gas sensor
- Bottom sensor

Every sensors has independent MCU to execute program. The program is same at each sensor. User can execute it from NuMaker_Brick_BSP.

There are four parts at software package: BSP 、 Android APP 、 iOS APP 、 Arduino

NuMaker_Brick_BSP include the software which each sensor needed.

Every sensor can download and execute the program in:

\NuMaker_Brick_BSP\SampleCode\StdDriver\NuMakerBrick

\NuMaker_Brick_Android_App contains Android application software and source code.

\NuMaker_Brick_iOS_App contains iOS application source code

\NuMaker_Brick_Arduino contains the Arduino LED program.

BSP Version

M451SeriesBSP_v3.01.001

Development Resources

NuMaker Brick

1 NuMaker_Brick_BSP Information

Document	Driver reference manual and reversion history.
Library	Driver header and source files.
SampleCode	Driver sample code.

2 NUMAKER_BRICK_BSP\DOCUMENT

NuMaker Brick Revision History

Show all the revision history about specific BSP.

3 NuMaker_Brick_BSP\Library

CMSIS	Cortex® Microcontroller Software Interface Standard (CMSIS) V3.01 definitions by ARM® Corp.
Device	CMSIS compliant device header file.
StdDriver	All peripheral driver header and source files.

4 NuMaker_Brick_BSP\Samplecode\StdDriver\NuMakerBrick

Ahrs.c	Program for vibration sensor executing
AHRSLib.c	Program for vibration sensor executing in background.
Battery.c	Program for battery sensor executing
Buzzer.c	Program for buzzer sensor executing
Flash.c	Program for saving FLASH data
Gas.c	Program for gas sensor executing
GPC_IRQ.c	Program for bottom sensor interrupt executing
i2c_HTU21D.c	I2C communication setting for temperature and humidity sensor
i2c_ms.c	I2C communication setting for whole platform
i2cdev.c	Sensor end's I2C communication setting
ir.c	Program for IR sensor executing
Key.c	Program for bottom sensor executing
Led.c	Program for LED sensor executing
LR.c	Program for light resistant sensor executing
Main.c	Main function
NuBrick.uvproj	Program for Keil executing
PWM0P2_IRQ.c	Program for PWM interrupt
report.c	Program for sending data to uart
report_AP.c	Master return data to APP
sonar.c	Program for sonar sensor executing
temp_HTU21D.c	Program for temperature and humidity sensor executing
tid.c	Platform communication setting.

Tiddev.c	Sensor end's variable setting
Tidmst.c	Master communication setting
wakeupIRQ.c	Program for waking up MCU.

5 NuMaker_Brick_Arduino Information

NuMakerBrick_LED

Specific software for NuMaker Brick on Arduino.

6 NuMaker_Brick_Arduino\NuMakerBrick_LED

I2C0.ino	Sensor end's I2C communication setting
Led.ino	program for arduino driving LED
NuMakerBrick_LED.ino	Main program
Tid.ino	Platform communication setting.
Timer.ino	Program for setting period function.

7 NuMaker_Brick_Android_App Information

NuBrick.apk	Specific Android application for NuMaker Brick on Android phone or tablet.
NuBrick_Android_App_Source.zip	Specific Android application source code for NuMaker Brick.

8 NuMaker_Brick_iOS_App information

NuBrick_iOS_App_Source.zip	Specific iOS application source code for NuMaker Brick.
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