To our valued customers

I want to express my thanks to you for being interested in our products and for having confidence in **www.MicroHello.com** . The primary aim of our company is to design and produce high quality electronic products and to constantly improve the performance thereof in order to better suit your needs.

Please share your thoughts and feelings regarding our operation so that we can serve you better in the future. I thank you for your continued support and patronage.Your Dream is our Destination!

Sincerely,

Owner and General Manager
of www.MicroHello.com

CONTENTS

1) Download and Install MPLAB X IDE

Download MPLAB X IDE from the MPLAB X IDE webpage:
https://www.microchip.com/en-us/tools-resources/develop/mplab-x-ide and launch the installer.
For more details, refer to MPLAB® X IDE User's Guide.

2) Install PICC8 and PICC18 compiler

PICC8 compiler is for PIC16F series and PICC18 compiler is for PIC18F series.
For more details, refer to the relevant documentation. To download the evaluation version of PICC8 and PICC18 compiler, please contact:

microhello_sales@163.com
microhello_support@163.com

3) How to create a new project

Now, let's use PIC18F4550 as an example to create a new project. Assuming that your projects are kept at F:\PIC-EK-18f4550\LEDs_Run.
Create a new project from the menu bar by File -> New Project. See the following **Figure 1**.

Figure 1

In the *New Project Choose Project* window, simply click *Next.* See the following **Figure 2**.

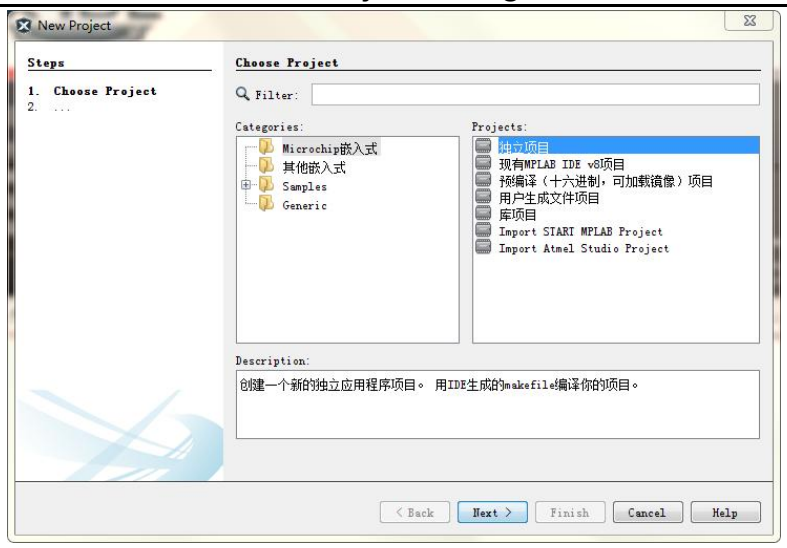

Figure 2

In the *New Project Select Device* window, select PIC18F4550 in the *Device* drop-down list and click *Next* to continue. See the following **Figure 3**.

Figure 3

In the *New* Project Select Compiler window, select HI-TECH PICC18-PRO V9.66 and click *Next* to continue. See the following **Figure 4**.

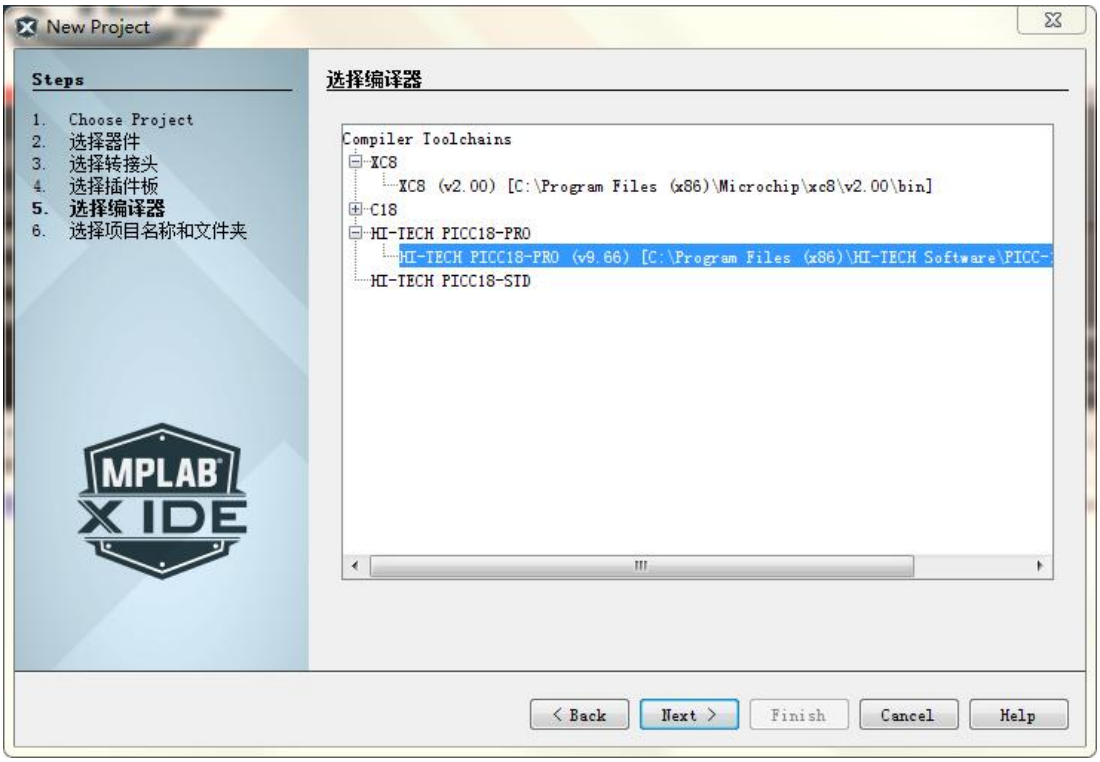

Figure 4

In the *New* Project Select Project Name and Folder window, browse to the currently created project folder F:\PIC-EK-18f4550\LEDs_Run and type in LEDs_Run as the name for the new project. Select GB2312 in the *Encoding* drop-down list, and click *Finish* to continue. See the following **Figure 5**.

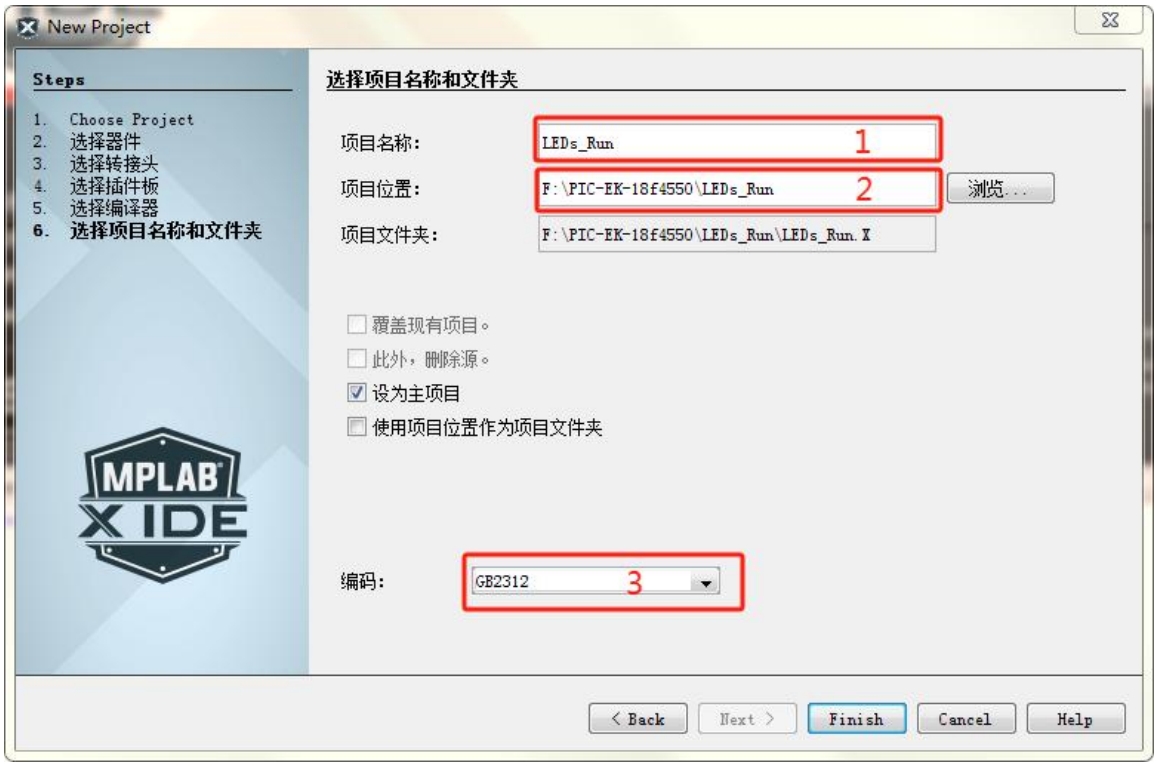

Figure 5

A project has now been created. Click the icon inside the red circle to create a .c source file. you can also create this file from the menu bar by File -> New File. See the following **Figure 6**.

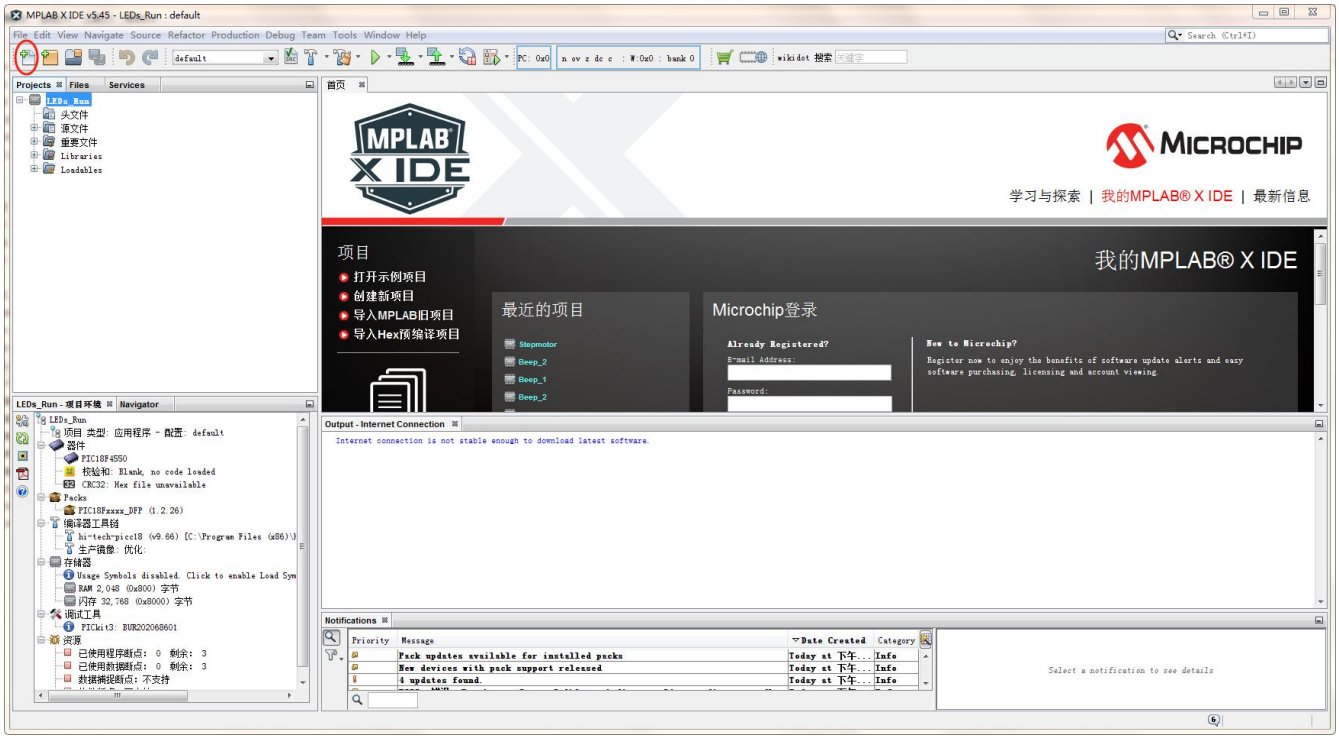

Figure 6

In the *Choose File Type* window, Select C in the *Categories* list, Select C Main File in the *File Type* list, and click *Next* to continue. See the following **Figure 7**.

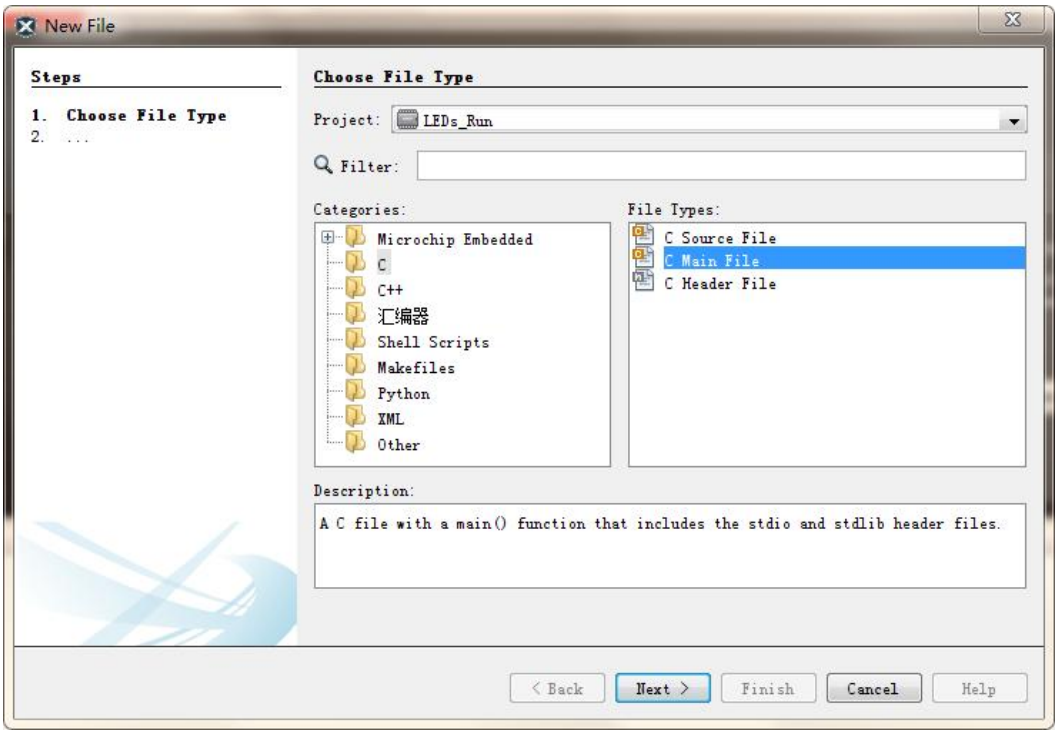

Figure 7

In the *Name and Location* window, sign in "LEDs_Run" in *File Name*, and click *Fish* to continue. See the following **Figure 8**.

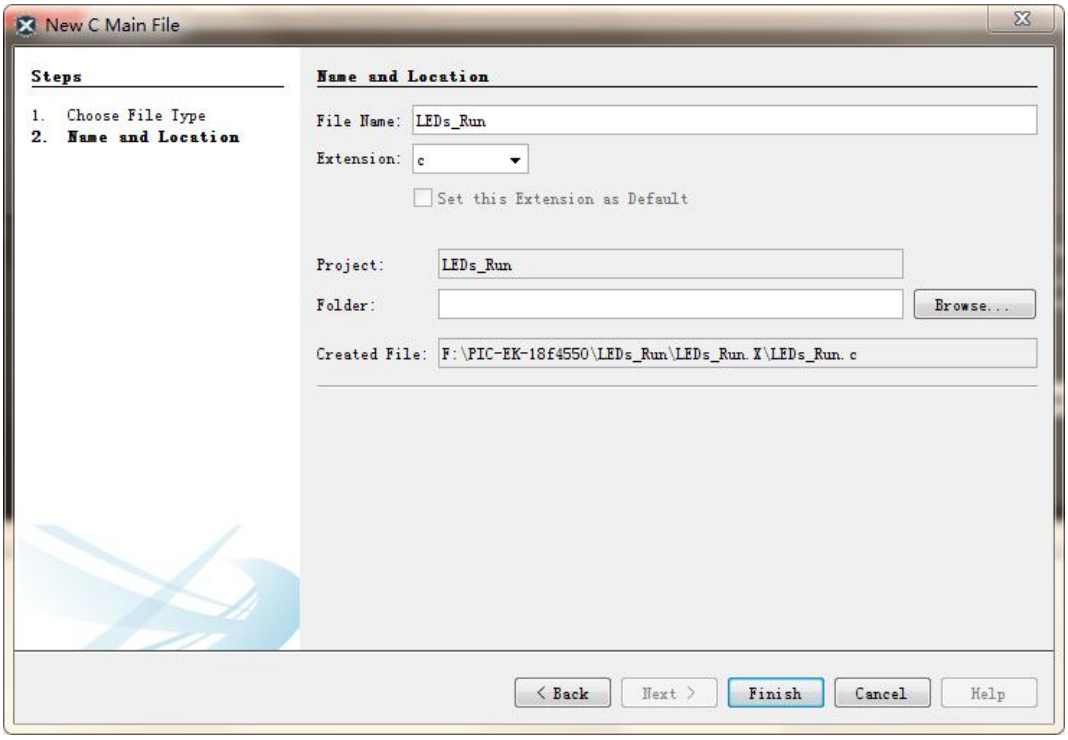

Figure 8

Add source code in area 1 of the following Figure 9. After completing the code writing, click the icon in area 2 to try to compile it. See the following **Figure 9**.

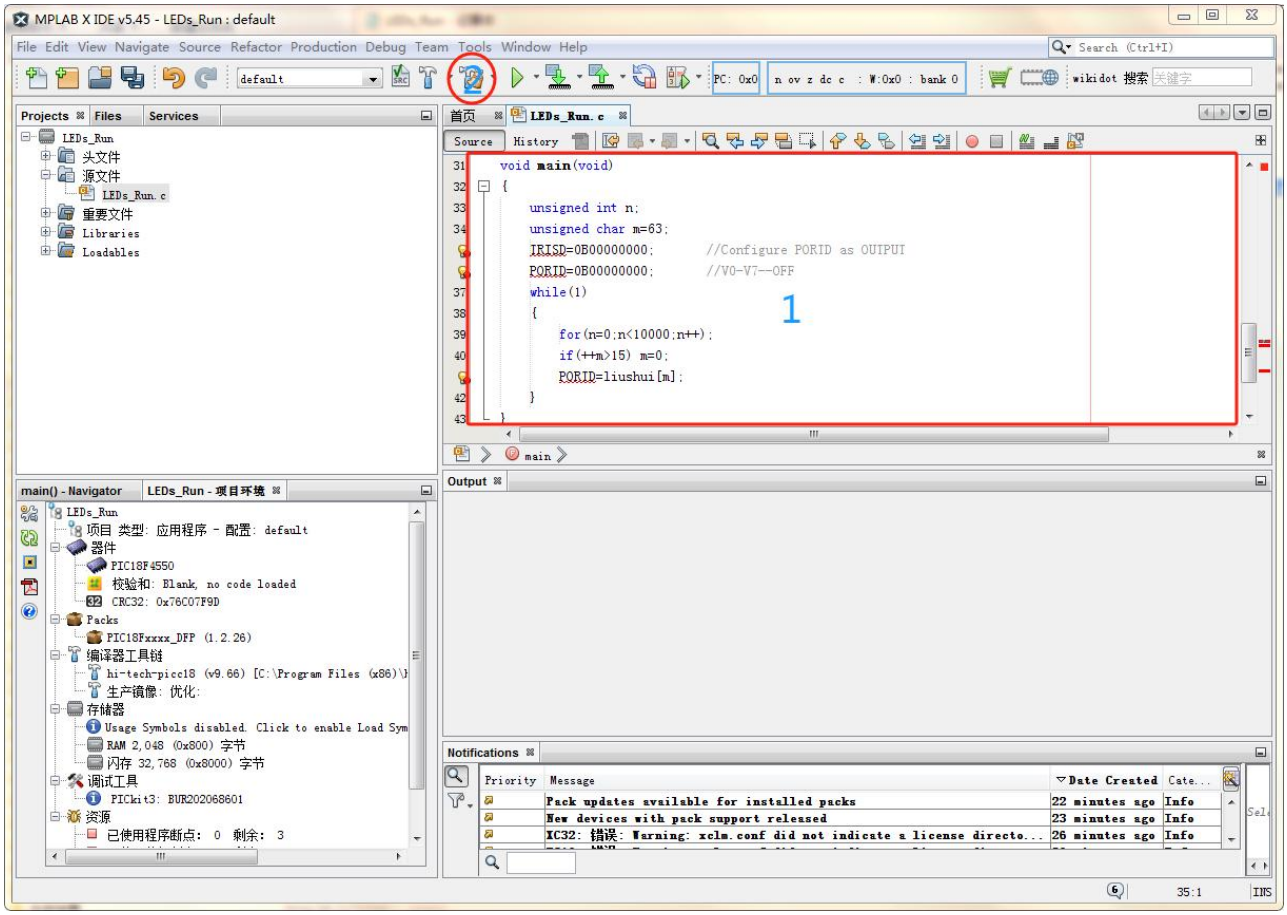

Figure 9

If the project is compiled successfully, you can try to download it to the target microcontroller

PIC18F4550 and observe the program's operation. In the following **Figure 10**, area 1 shows the project is compiled successfully, the icon in area 2 is a button to download. See the following **Figure 10**.

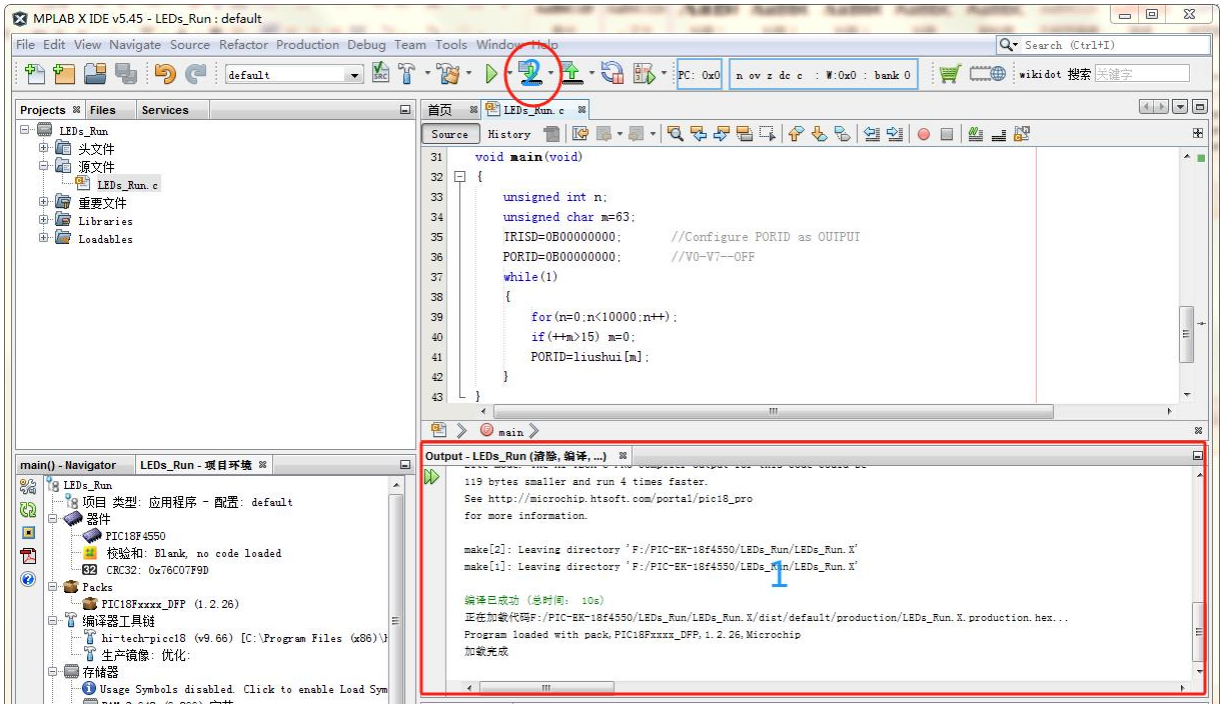

Figure 10

In the following **Figure 11**, it shows the download is completed.

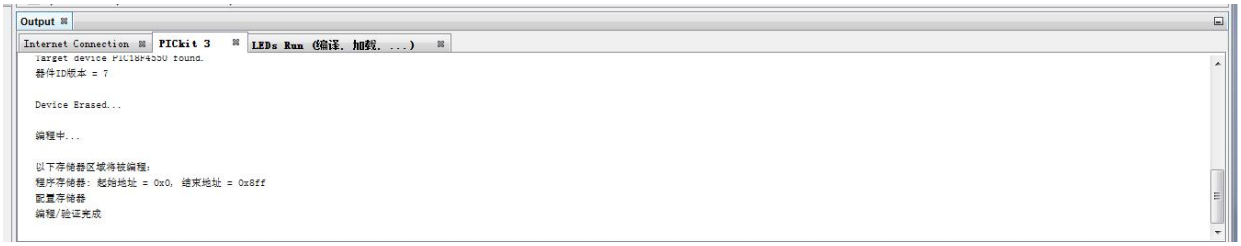

Figure 11

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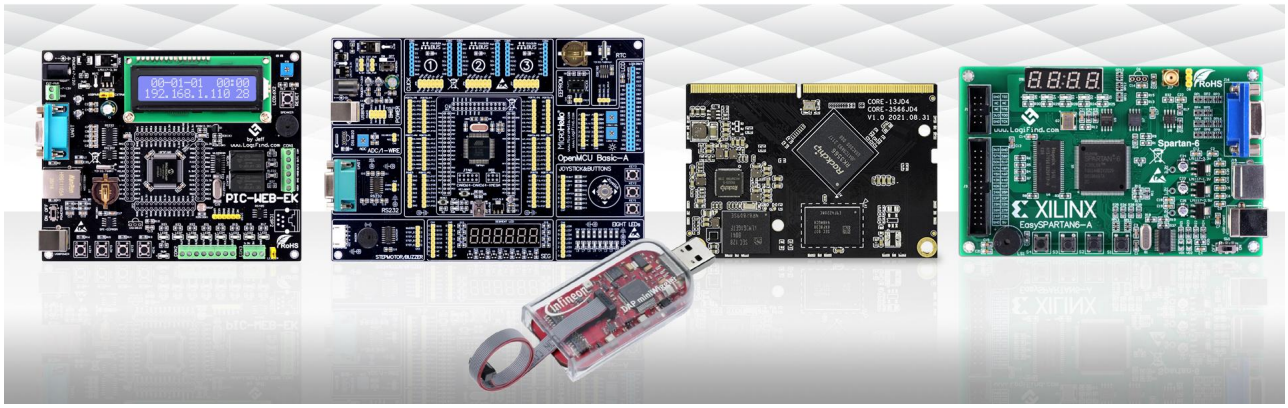
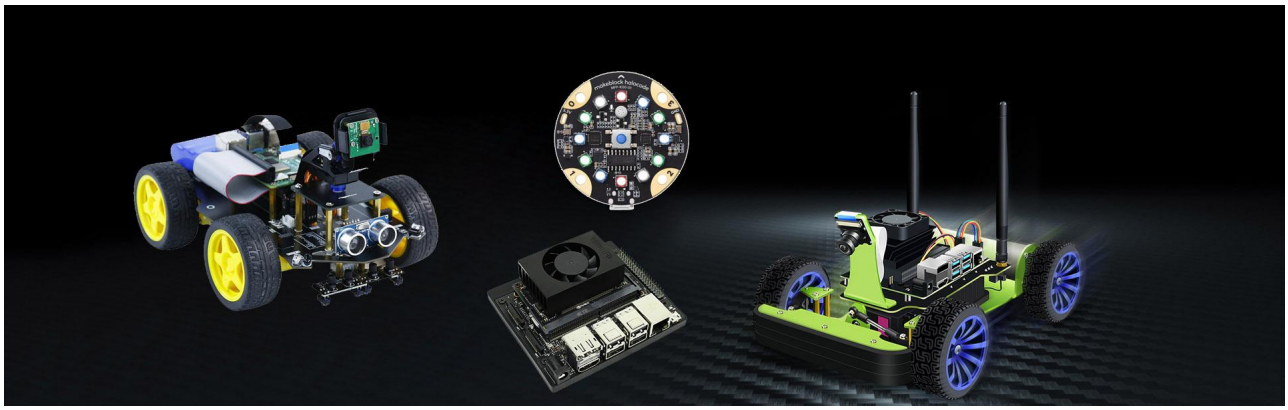
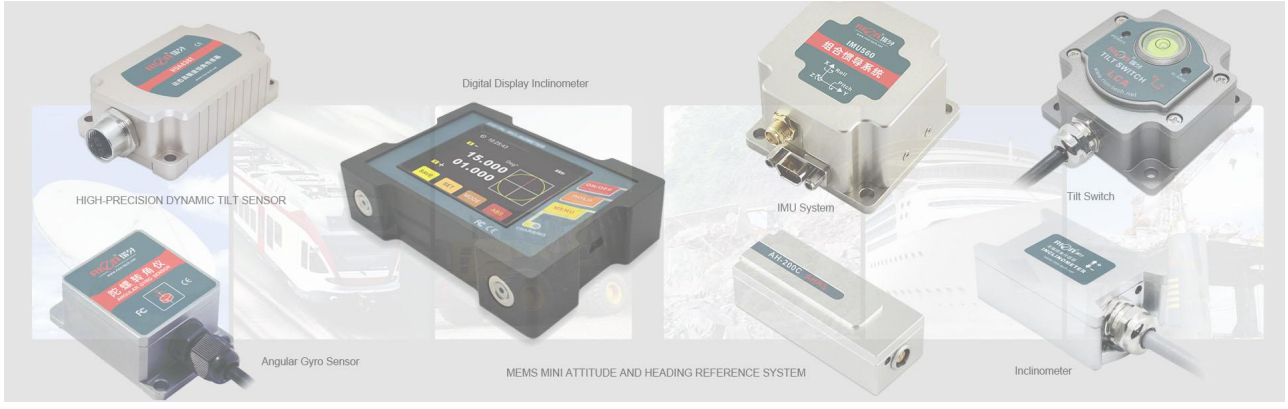
1. FPGA/CPLD/MCU Development Tools: Raspberry Pi; Arduino; MCU development boards and Programmers/debuggers of FPGA/CPLD, AVR, PIC, PIC32, PIC24, dsPIC, MSP430, NXP, C8051F, 51, STM32, STM8, LPC and ESP32.



2.AI and Robots: Jetson AI development board,AI camera,AI Robot,MCU Robot, Raspberry Robot, Arduino Robot, Robot/AI accessories.



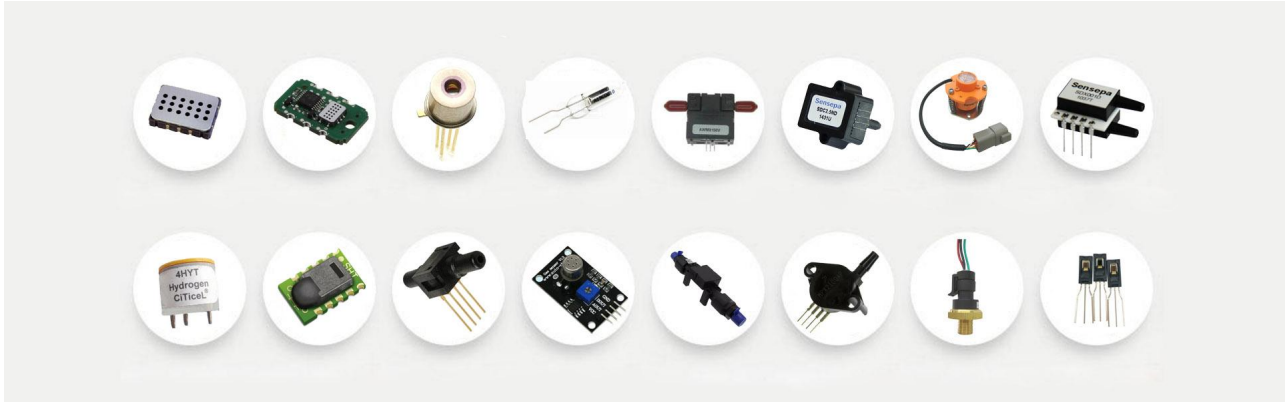
3. Attitude Solutions: Inclinometer，Dynamic Inclinometer，Tilt Switch，Dynamic Tilt Switch，Digital Compass，Accelerometer，Digital Display Inclinometer，GYRO，AHRS，North Finder，Inertial Navigation System，Photovoltaic Tilt Sensor.



4. CAN Bus Series: CAN Analyzer, USBCAN-OBD, Ethernet/Modbus TCP/Modbus RTU/WIFI to CAN, CANopen to UART, CANopen slave/master Converter, Programmable Smart Gateway Series, CANopen IO Coupler, Modbus IO Coupler.

5. Displays: Character LCD display, Graphic LCD display, Color LCD display(TFT), Segment LCD display, Segment LED display, Black & White ePaper, Multi-Color ePaper, Full Color ePaper.

6. Sensors and Sensor Modules: Pressure/Force Sensor,Distance Measuring Sensor, Acceleration Sensor, Micro Flow/Air Flow Sensor, Dust Sensor, Temperature and Humidity Sensor, Transmissive Sensor, Hall-effect Rotary Position Sensor, Air Quality Sensor,Gas sensor(for CO2，CH4，O2，NH3，H2S，NO2，O3，SO2，CL2，HCL，HF，PH3，ETO，H2，HCHO，C2H5OH，C3H8，NO，CLO2，HCN or CH3SH，etc.)



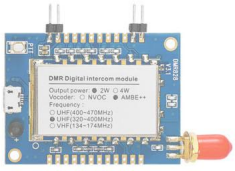
7. Wireless Modules: RF Module，LoRa Module，FSK Front-End RF Module，Sensor Acquisition

Gateway and Node，Data Transceiver Module，Walkie Talkie Module，Wireless Switch Module，Wireless Audio Module，GPS Module，SDR，LoRaWan Gateways and Nodes，ASK & Superheterodyne Module.

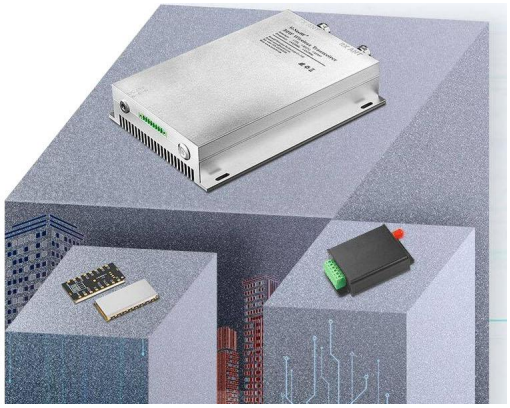

LoRa module


Wireless Data Transceiver Module


Wireless Switch Module



Digital Walkie Talkie Module



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