

# InnerIDE User Guide

## V1.1

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## Document History

Version	Completion Time	Revision Record	Author	Auditor
V1.0	2019/1/16	Initial Release	Huang Leilei	Wang Min
V1.1	2019/2/18	Add Python environmental dependencies	Huang Leilei, Wang Min	Wang Min

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## 1 Introduction

### 1.1 Purpose

This document introduces how to use W600-Arduino EV Board with Arduino IDE. Help developers installing SDK package to the directory of hardware/ in Arduino IDE.

### 1.2 Readers

W600 developers.

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## 2 Set up the Development Environment

### 2.1 Download Arduino IDE and decompress

Developers can download the latest version of Arduino IDE for Windows from <https://www.arduino.cc/>. The version number should not be lower than 1.8.7 (one download links: <https://downloads.arduino.cc/arduino-nightly-windows.zip>). **Note: No spaces in decompression path.**

### 2.2 Python Environment Dependence (optional)

For Windows environment, we supply exe program for updating (We suggest developers use Win7 to develop W600 Arduino).

As we use Python to deal with updating operation, the Python default environment should be set up. (following is the simple description, the detailed information is in README.md in source code package):

- 1) Install Python Environment (suggest version 3.4).
- 2) Modify the environment variables of the system according to actual situation.
- 3) Install 3 Python package: pyserial, xmodem and pyprind.

### 2.3 Prepare the EV board

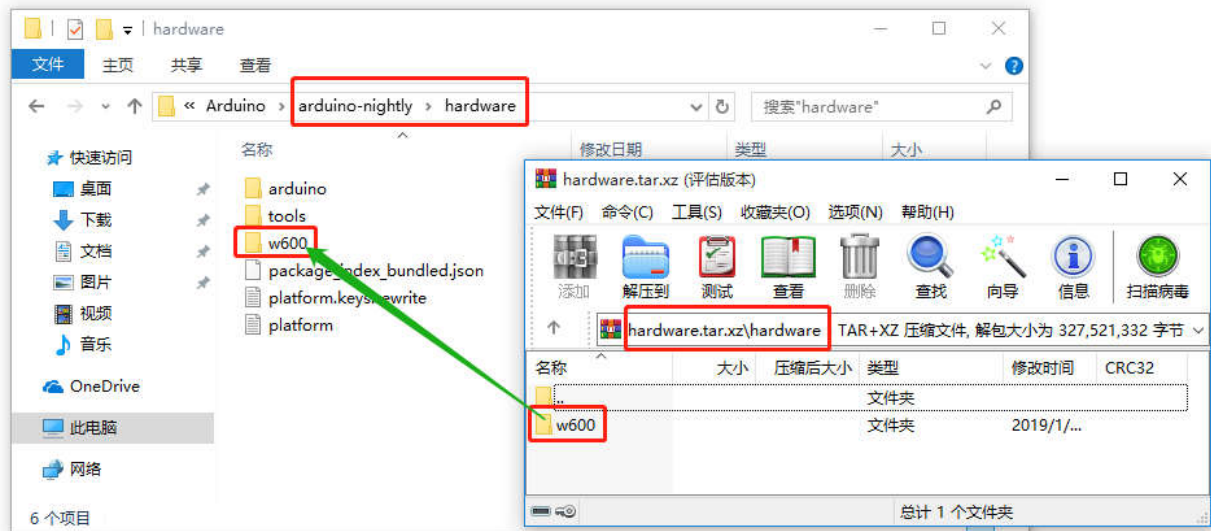
This chapter describes how to use W600 software package. The information of W600 Arduino EV board is on the website: <http://www.winnermicro.com/html/1/162/163/529.html>.

### 2.4 Download the local development package

Developers can download the software package from Winner Micro's website with the name w600-arduino-InnerIDE-x.x.x.zip, the website path is: **【Solution】->【Reference Design】->【WM\_Arduino EV Board】->【Software】**.

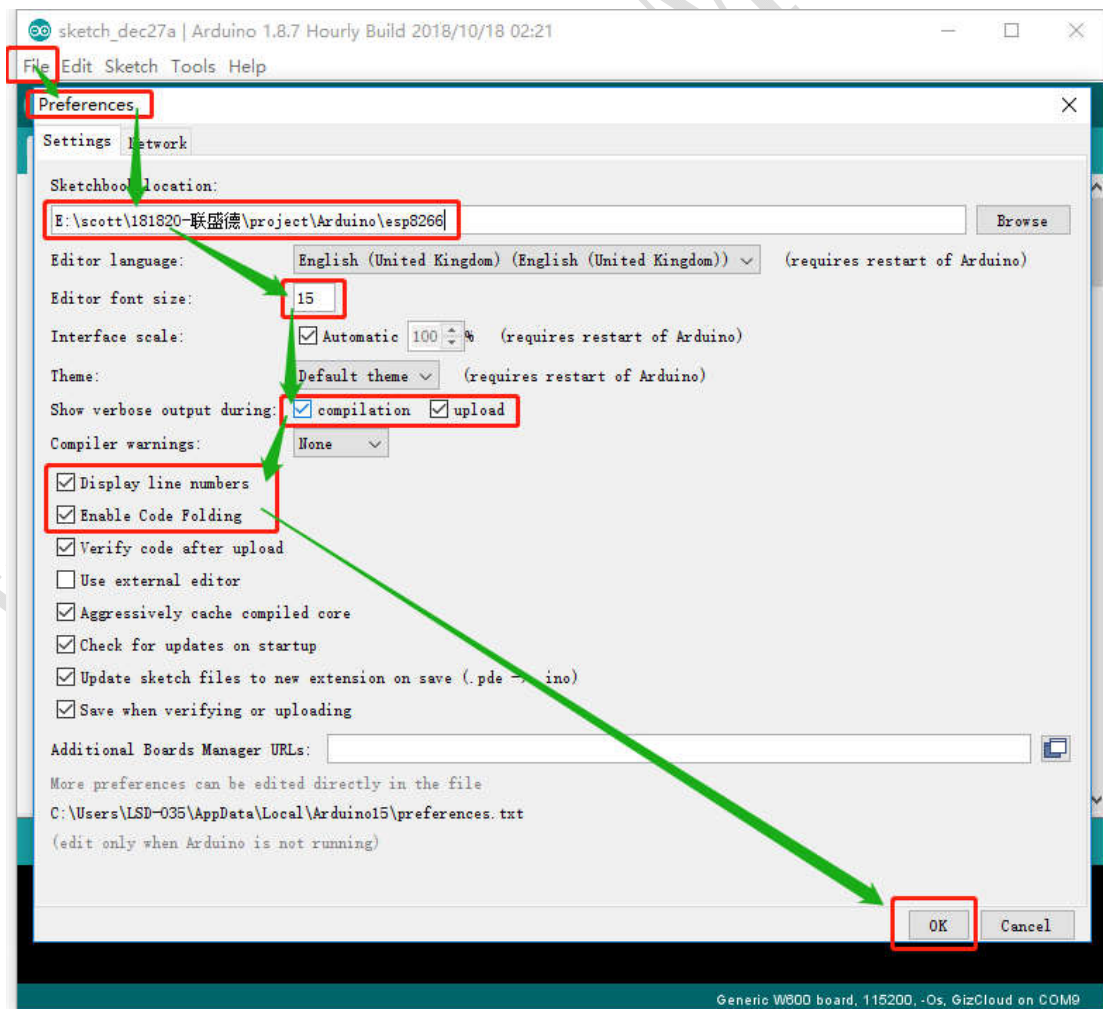
### 2.5 Decompress the package to IDE folder

There is a compressed file hardware.tar.xz in w600-arduino-InnerIDE-x.x.x.zip. Decompress hardware.tar.xz and decompress the hardware/w600 to hardware directory in Arduino IDE's installation directory (or running directory). As following, **x:\arduino\arduino-nightly\hardware\w600:**



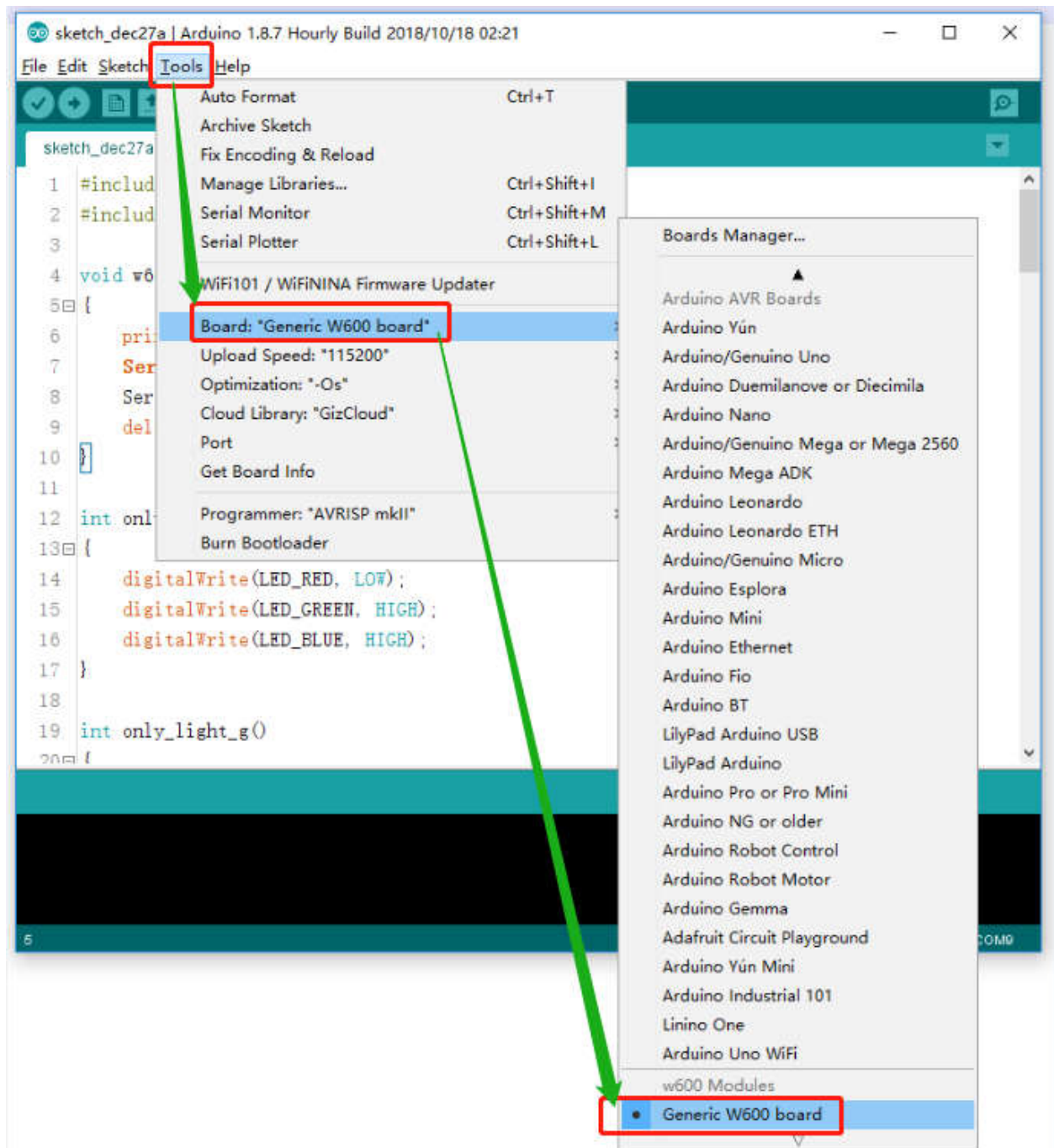
## 2.6 Set up preferences

Developers can set up preferences content based on following figure. We suggest set **【Editor font size】** as 15:



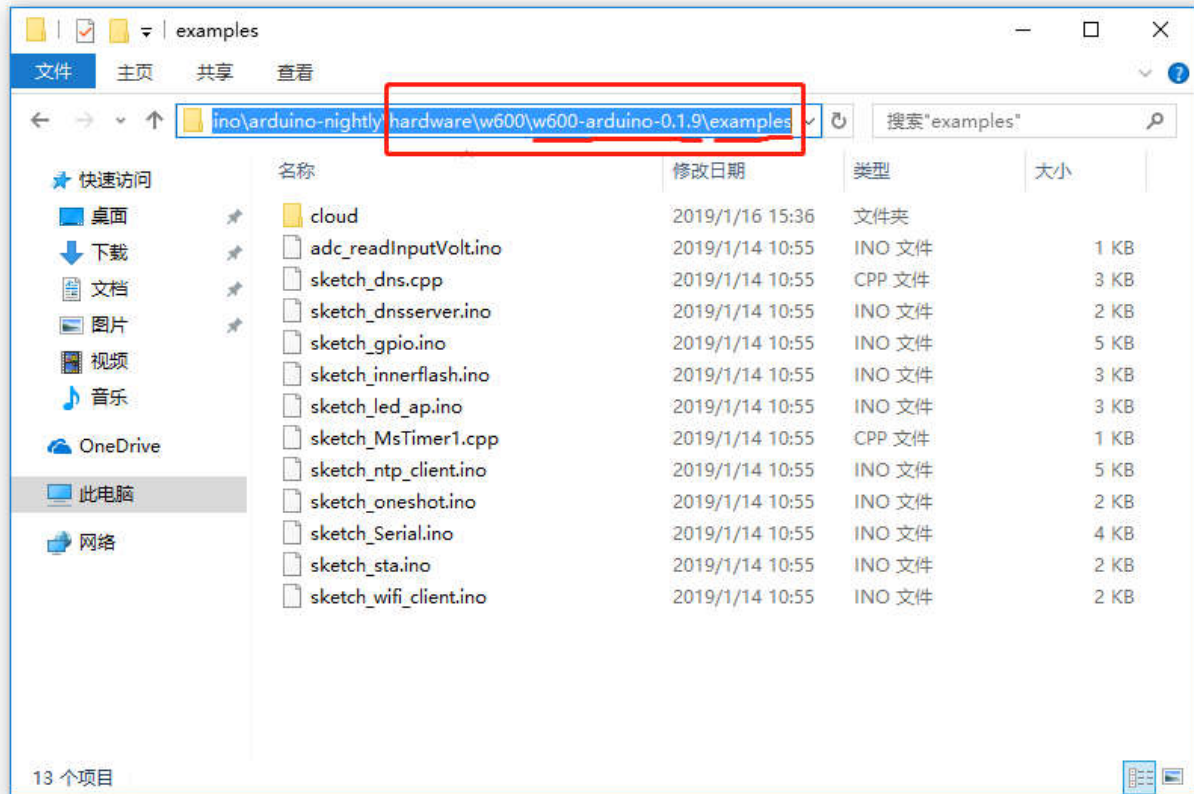
## 2.7 Select the EV board

Developers can select W600 target EV board based on following figure:



### 3 Test Demo

W600 Arduino SDK supports some Demo code for testing. Such files have been put in the path of examples in the SDK package:



All the demo code can be opened with notepad. Copy such code and paste to edit area in Arduino IDE and the code can be edited or modified (refer to <WM\_Arduino-Examples-instruction>).



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## 4 Others

- ◆ When the popup window appears during compiling with the warning C++ or makeimg.exe mistake, close IDE and restart IDE with administrator mode.
- ◆ If firmware updating failed, please choose the manual updating mode to update the firmwawre. Refer to < WM\_Arduino-Examples-instruction >.

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