

REPL interactive mode

Windows users can use tools such as putty to implement the REPL interaction mode of the development board.

1. Download and install putty software

Open the download address of putty:

<https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html>

The latest version is currently 0.73, according to the version of your computer, if the system is Win10x64 version, download **putty-64bit-0.73-installer.msi** file.

Download PuTTY: latest release (0.73)

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This page contains download links for the latest released version of PuTTY. Currently this is 0.73, released on 2019-09-29.

When new releases come out, this page will update to contain the latest, so this is a good page to bookmark or link to. Alternatively, here is a [permanent link to the 0.73 release](#).

Release versions of PuTTY are versions we think are reasonably likely to work well. However, they are often not the most up-to-date version of the code available. If you have a problem with this release, then it might be worth trying out the [development snapshots](#), to see if the problem has already been fixed in those versions.

Package files

You probably want one of these. They include versions of all the PuTTY utilities.

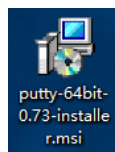
(Not sure whether you want the 32-bit or the 64-bit version? Read the [FAQ entry](#).)

MSI ('Windows Installer')

32-bit:	putty-0.73-installer.msi	(or by FTP)	(signature)
64-bit:	putty-64bit-0.73-installer.msi	(or by FTP)	(signature)

Unix source archive

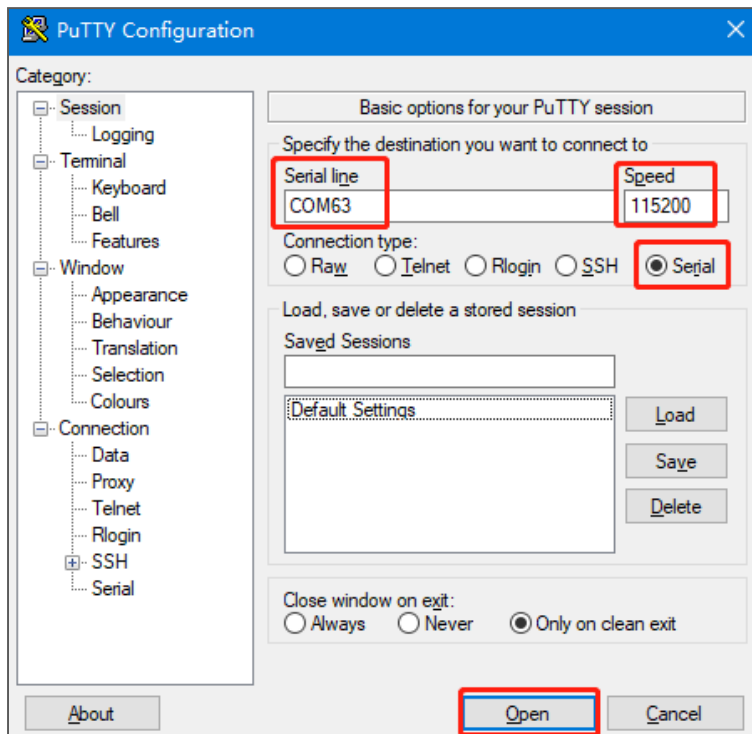
.tar.gz:	putty-0.73.tar.gz	(or by FTP)	(signature)
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After the download is complete, double-click  to open to complete the installation.

2. Connect Dock

Before Open putty, we need to ensure that the serial port of the Dock is not connected. Then double-click to open putty. As shown below.



First, we need to click Serial to switch to serial port mode, then, enter the serial number of the development board in the serial number Serial line, 115200 baud rate, and click “Open”.

After opening, you will see the following information. If you don't see it, please press the reset button of the development board.

Note:

- 1) Be sure to see the >>> symbol in the lower left corner is the normal REPL interaction mode.
- 2) If the program has been run in MaixPy IDE, the >>> symbol may not appear, and even the message will be printed all the time. At this time, we need to press Ctrl + C to exit the running program, then we can see >>> symbol normally.

The image shows a terminal window titled 'COM63 - PuTTY'. It displays the output of a MaixPy boot sequence. The text includes: [MAIXPY]P110:freq:832000000, [MAIXPY]P111:freq:398666666, [MAIXPY]P112:freq:450666666, [MAIXPY]cpu:freq:416000000, [MAIXPY]kpu:freq:398666666, [MAIXPY]Flash:0xef:0x17, open second core..., mallocmallocmallocgc heap=0x802eacc0-0x8036acc0(524288), [MaixPy] init end. Below this is a large ASCII art logo for 'MAIXPY'. Further down, it shows the official site and wiki links: Official Site : https://www.sipeed.com, Wiki : https://maixpy.sipeed.com. At the bottom, it says 'MicroPython v0.5.0-31-gd3e71c0 on 2020-03-13; Sipeed_M1 with kendryte-k210' and 'Type "help()" for more information.' The prompt '>>>' is visible at the bottom left, highlighted with a red box.

In this interface, we can execute MicroPython commands as if we were running a Python terminal. For example, input `help()` and press Enter, the following message will appear.

```
>>> help()
Welcome to MicroPython on the Sipeed Maix!

For generic online docs please visit https://maixpy.sipeed.com

Official website : http://www.sipeed.com

Control commands:
CTRL-A      -- on a blank line, enter raw REPL mode
CTRL-B      -- on a blank line, enter normal REPL mode
CTRL-C      -- interrupt a running program
CTRL-D      -- on a blank line, do a soft reset of the board
CTRL-E      -- on a blank line, enter paste mode

For further help on a specific object, type help(obj)
For a list of available modules, type help('modules')
>>> █
```

Print string hello world.

```
>>> print("hello world")
hello world
>>> █
```