

EoRa-S3-x00TB Online Environment Setup Tutorial





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1, Installing Visual Studio Code

1.1 Download Visual Studio Code

The download of Visual Studio Code is prioritized on the official website, download the latest installer file from the vscode website, double click on the downloaded .exe file, and finally install it as per the screenshot below.

• Download website: <u>https://code.visualstudio.com/download</u>

有仔细阅读下列计	可协议。您在继续安	装前必须同意这些协	▶议条款。		_
<i>此许可适用于 </i> 据 www.法司#b3	Visual Studio C	<i>ode 产最</i> 。Visual	l Studio Code 的》	原代码可根	í
(<u>https://githu</u> 址获取: <u>https:</u> 我们的常见问题 https://code.v	b.com/microsof //github.com/M 解答,网址为 risualstudio.co	t/vscode/blob/ma icrosoft/vscode m/docs/supportin	<u>aster/LICENSE.tx</u> 。有关其他许可信! <u>ng/faq</u> 。	:) 在以下网 急,请查看	
Microsoft	软件许可统	条款			
MICROSOFT	VISUAL S	TUDIO CODE	2		

🗙 安装 - Microsoft Visual Studio Code (User)		-		<
法择目标位置 您想将 Visual Studio Code 安装在什么地方?			×]
安装程序将安装 Visual Studio Code 到下	列文件夹中。			
单击"下一步"继续。加里你相说择其它文件本,	单击"刎监"。			
C:\Users\EBIT\AppData\Local\Programs\Microsoft \	/S Code	测出	່ງ(R)	
至少需要有 250.0 MB 的可用磁盘空间。				
	<上一步(B)	下一步(N) >	取消	
🔇 安装 - Microsoft Visual Studio Code (User)		<u> </u>		×
选择开始菜单文件夹				1
您想在哪里放置程序的快捷方式?			~	
安装程序现在将在下列开始菜单文件夹	中创建程序的快捷方式。	•		
 单击"下——步"继续。如果您想选择其它文件夹,	单击"浏览"。			
Visual Studio Code		ेत	(塔(2))	
			12000	
□ 不创建开始菜单文件夹(D)				
		2 (A)	3	

Note: All selections are required as shown in serial number 1 below.

🔇 安装 - Microsoft Visual Studio Code (User)	_		×
选择附加任务 您想要安装程序执行哪些附加任务?			
选择您想要安装程序在安装 Visual Studio Code 时执行的附加任务,然后单i	击"下一步"。		
附加快捷方式: ☑ 创建桌面快捷方式(D) 其他: □ 将 通过 Code 打开"操作添加到 Windows 资源管理器文件上下文菜单 □ 将 通过 Code 打开"操作添加到 Windows 资源管理器目录上下文菜单 □ 将 Code 注册为受支持的文件类型的编辑器 ☑ 添 加到 PATH (重启后生效)			
<上一步(B)	下一步(N) >	取洋	Ě
安装 - Microsoft Visual Studio Code (User)	<u> </u>		×

单击"安装"继续此安装程序。如果您想要回 	〕 顾或改变设置,请单击"上一步"。	
目标位置: C:\Users\EBIT\AppData\Local\Programs\	Microsoft VS Code	1
开始菜单文件夹: Visual Studio Code		
附加任务: 		
创建桌面快捷方式(D) 其他:		
添加到 PATH (重启后生效)		
		~

🗙 安装 - Microsoft Visual Studio Code (User)

— 🗆 🗙

Visual Studio Code 安装完成

安装程序已在您的电脑中安装了 Visual Studio Code。此应用程序可以 通过选择安装的快捷方式运行。

单击"完成"退出安装程序。

🗌 运行 Visual Studio Code



完成(F)

2. Installing Python

2.1 Download Python

The download of Python is prioritized on the official website, download the latest installer file from the Python website, double-click the downloaded .exe file, and finally install it as per the following screenshot.

• Download website: <u>https://www.python.org/downloads/</u>



The address in point 2 of the picture above should be memorized, and the

subsequent steps need to be used, for example, my python address is

C:\Users\EBIT\AppData\LocalPrograms\Python\Python310, which will be used later.



3、Installing PlatformIO

3.1 Installing PlatformIO

3.1.1 Installation of Chinese plug-in (optional)

Open Visual Studio Code, as shown in the following figure, click serial number 1 "Expand", then in serial number 2 of the search box to collect "chinese", select the plug-in as shown in the figure, click serial number 3 "Install", and finally reopen Visual Studio Code.



3.1.2 Visual Studio Code Stand-alone environment setup

Build a standalone runtime environment in Visual Studio Code to prevent contamination of other runtime environments, and install the standalone PlatformIO environment as shown in the figure.

Step 1: Click on serial number 1 "Settings icon", then click on serial number 2 "Configuration file", and finally click on serial number 3 "Configuration file", then the configuration interface will appear.



Step 2: In the pop-up "Profile" interface, first click on the serial number 1 "New Profile", and then click on the serial number 2 "Name", where the name is given to the current configuration environment to take a name, and then click on the serial number 3 "Icon", select an icon to facilitate their memory, and finally click Create. Here the name is for the current configuration environment to take a name, here to

"Platform" named, and then click on the serial number 3 "icon", select an icon to facilitate their memory, and finally click Create.

☆ 配置文件 ●		
新建配置文件	1 Platform	2
卷 默认 ✓活动 卷 c ❹ EIDE	各称 Platform	
© Platform ● 📲	■ 服标 ● 要显示在活动烂中的配置文件图标 3	
	复制自 选择要从中复制内容的配置文件源 无 ~ ~	
	内容 为此配置文件配置内容源	
	内容	源
	设置 键盘快捷方式	默认 无默认 无
	任务	默认 无
	片段	默认 无
	扩展 取消预览 创建 4	默认 无

Step 3: After creating a good configuration environment, then select the environment, as shown in the figure below, first click on the serial number 1 "Settings icon", then click on the serial number 2 "Configuration file", and finally click on the serial number 3 "Platform ".

	命令面板	Ctrl+Shift+P	2	
	配置文件 (默认)	>	✓ 默认	
	设置	Ctrl+,	с	
	扩展	Ctrl+Shift+X	EIDE	3
	键盘快捷方式	Ctrl+K Ctrl+S	Platform	
	代码片段		<u> </u>	
	任务		ILEXIT	
	主题	>		
<mark>8</mark> 1	备份和同步设置			
£233	检查更新			
\times \otimes	0 🛆 0 EIDE Project: RX	TX 🎉 Build 🕹 Fla	ish	s

3.1.3 Download PlatformIO

After the standalone environment is installed, first make sure that the location of serial number 1 is not the icon of the configuration environment that you have created, then click serial number 2 "Extension", then search for "platform" in the search box of serial number 3, and finally click serial number 4 "Install" to install it. Then click "Install" in the search box of serial number 3, and finally click serial number 3, and finally click "Install" in serial number 4 to install.

Note: The installation of PlatformIO needs to be connected to an external network, if you don't have an external network, the download of data will be very slow, or even unsuccessful, if you don't have an external network, you can choose the "offline version of the installation tutorial" provided by us.



The installation process is a bit long, please wait patiently, the final installation of PlatformIO logo is to appear as shown in the figure, click on the serial number 1 icon, and then click on the serial number 2 "QUICK ACCESS", and then click on the "Open". Finally, the icon of serial number 4 appears, which means the installation is successful.

If the installation is not successful, please check whether your computer can access the Internet, or choose the "offline version of the installation tutorial" provided by us.



4. Open the first project

4.1 Open the folder with Visual Studio Code

Step 1: Before you open the project file, make sure you have access to the Internet, otherwise check the "Offline Version Installation Tutorial".

Step 2: Open Visual Studio Code, click on the icon of serial number 1, click on serial number 2 "Pick a folder", then select our example code folder "EoRa_PI_example_v1.0 ".



Step 3: When you open the file, the window shown below will pop up, check the blank box on the serial number 1, and then click on the serial number 2 "Yes, I trust this author".



Step 3: When you open the code file, the Platform environment will download their own core software package, you must connect to the Internet to work, this process may be a little long, please be patient and wait for the Platform environment to download the completion of the state will appear as shown.



4.2 Download and burn

Step 1: Connect the EoRa-S3-x00TB module with data, then click on serial number 1 "Auto", then a window with serial number 2 will pop up, select your serial device port correctly.



Step 2: Click the compile button " \checkmark " in serial number 1, and then wait for the completion of the compilation, the "succeeded" shown in serial number 2 means that the code is compiled successfully.

	<pre>bit syrc_dir = complex/0.000/0000000000000000 5 ; irc_dir = complex/0.000/000000000 7 ; irc_dir = complex/0.000/000000 7 ; irc_dir = complex/0.000/0000000 7 ; irc_dir = complex/0.000/00000000 7 ; irc_dir = complex/0.00000000000000000000000000000000000</pre>	
	Optimization Optimization Advanced Peakery Long 1: A scalable on 2 Marketon Peakers > Project Toopect" Project Toopect" Advanced Peakery Long 1: A scalable on 2 Marketon Peakers > Project Toopect" Project Peakers > Project Toopect" Filiable [] 0: A state on 2 Marketon Peakers > Project Toopect" Project Peakers > Project Peakers > Project Toopect" Building, probabilition Peakers > Project Toopect Project Peakers > Project Peakers > Project Peakers > Project Toopect Project Peakers > Project	+~ []\$ws-668.√ [] ∰ ··· ^ ×
® 1	Environment Status Davation	
→ ×101 > ±59351 PlatformIC: Build	● 终端将被任务重用,按任意说关闭。 1 succeeded in 00:00:22.077	(≂20 20125 223% / 111°C.0 15 (1) Ini ()

Step 3: Click the download button "->" of serial number 1, and then wait for the program to be burned and downloaded into the module, and "succeeded" of serial number 2 will appear if the burning is successful, and finally the EoRa-S3-x00TB module will run successfully as shown in the figure. x00TB module runs successfully, as shown in the figure.

	32 Doards_d2r = Doards		
	问题 第3出 经资源 第二日 调试性制度		
	Writing at 0x000c3752 (93 %) Writing at 0x000c23757 (96 %) Writing at 0x000c3as0 (108 %) Wrote 837600 bytes (534648 compressed) at 0x00010000 in 6.1 seconds (effective 107	4.5 kbit/s)	
	Hash of data verified.		
	Hard resetting via RTS pin	[SPCESS] Took 24 57 records	
	Environment Status Duration	[ACCESS] TOX 24.37 SECTING	
3	EGR8_PI_400M SUCCESS 00:00:24.572	·	2
2 ⁺ → 大用 1	 终端将被任务重用,按任意键关闭。 	= == 1 succeeded in 00:00:24.572 =====	
 ⊗0∆0 û ✓ → 8 ≛ ¢ ⊑ 53	Default (1_EoRa_PI_example_v1.0)		行38,列25 空格-4 UT



5. Download program error resolution

5.1 Download burn-in program errors and reasons

A serial exception error occurred:write timeout is encountered when running PlatformIO under Visual Studio Code and downloading and burning because of the unstable hardware connection or driver. connection or driver is unstable.



5.2 Error Reporting Solutions

Step 1: After connecting the EoRa module, press the button "->" as shown in the picture, and then press and hold the BOOT button of the EoRa module (as shown in serial number 1 of picture B).

Step 2: Wait for the download view box to appear as shown in Figure C, press the RST button (as shown in Figure B, serial number 2) and then release it, wait for the program to be burned successfully, and after it is burned successfully, you can release the BOOT button.



Figure A



Figure B

 Figure B

 Retrieving maximum program size .pio\build\EoRa PI_400M\firmware.elf

 Checking size .pio\build\EoRa PI_400M\firmware.elf

 Advanced Memory Usage is available via "PlatformIO Home > Project Inspect"

 RAW:
 [=] 14.4% (used 47036 bytes from 327680 bytes)

 Flash:
 [=====] 62.3% (used 817141 bytes from 1310720 bytes)

 Configuring upload protocol...
 AVAILABLE: cmsis-dap, esp-bridge, esp-builtin, esp-prog, espota, esptool, iot-bus-jtag, jlink, minimodule, olimex-arm-usb-ocd, olimex-arm-usb-ocd-h, olimex-arm-usb-tord, olimex-arm-usb-ocd = esptool

 Looking for upload protcol
 ...

 Wsiting for the new upload port...
 Wsiting for the new upload port...

Figure C

6. About us



Sales Hotline: 4000-330-990 Technical Support: <u>support@cdebyte.com</u> Official website: <u>www.cdebyte.com</u> Address: Building B5, No. 199, West District Avenue,

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