



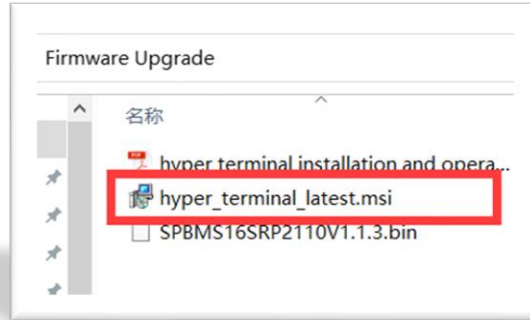
Battery Firmware Upgrade Manual

V1.0
8th July, 2022



Step 1 Install Hyper Terminal

Open [hyper_terminal_latest.msi](#) file to install the software.



| | |
|---|---|
| <p>1</p> <p>HyperTerminal 欢迎使用 HyperTerminal 安装向导 Welcome to use HyperTerminal install guide</p> <p>安装程序将引导您完成在您的计算机上安装 HyperTerminal 所需的步骤。</p> <p>警告: 本计算机程序受著作权法和国际条约保护, 如未经授权而擅自复制或传播本程序(或其中任何部分), 将受到严厉的民事及刑事制裁, 并将在法律许可的范围内受到最大程度的起诉。</p> <p>取消 < 上一步(B) Next Step 下一步(N) ></p> | <p>2</p> <p>HyperTerminal 选择安装文件夹 Select a folder for installation</p> <p>安装程序将把 HyperTerminal 安装到下面的文件夹中。 要在该文件夹中进行安装, 请单击“下一步”。要安装到其他文件夹, 请在下面输入另一个文件夹或单击“浏览”。</p> <p>文件夹(F): C:\Program Files (x86)\Darkwood\HyperTerminal\ Review 浏览(R)... 磁盘开销(D)...</p> <p>为自己还是为所有使用该计算机的人安装 HyperTerminal:</p> <p><input type="radio"/> 任何人(E) <input checked="" type="radio"/> 只有我(O)</p> <p>取消 < 上一步(B) Next Step 下一步(N) ></p> |
| <p>3</p> <p>HyperTerminal 确认安装 Confirm installation</p> <p>安装程序已准备在您的计算机上安装 HyperTerminal。 单击“下一步”开始安装。</p> <p>取消 < 上一步(B) Next Step 下一步(N) ></p> | <p>4</p> <p>HyperTerminal 安装完成 Install Completed</p> <p>已成功安装 HyperTerminal。 单击“关闭”退出。</p> <p>请使用 Windows Update 检查是否有重要的 .NET Framework 更新。</p> <p>取消 < 上一步(B) Close 关闭(C)</p> |

Step 2 Connect the cable

Connect the battery to your windows based PC/laptop by console cable. The crystal end plugs in battery Console port and USB ends plug in your PC/laptop.

After wiring, turn on the battery.

Battery End



Computer End



3. Run the Hyper Terminal

Open the Hyper Terminal from window menu and create a new connection as following steps:

Click File

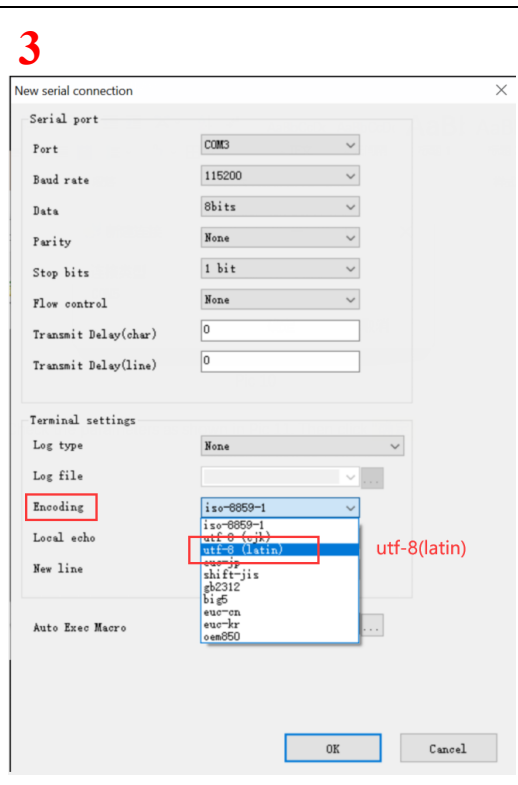
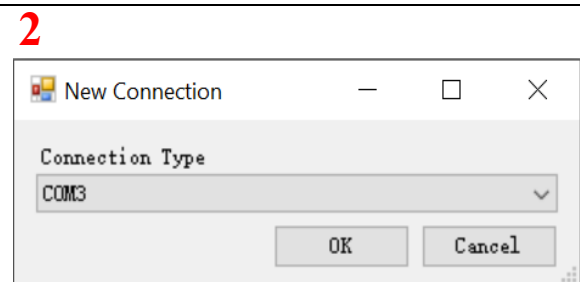
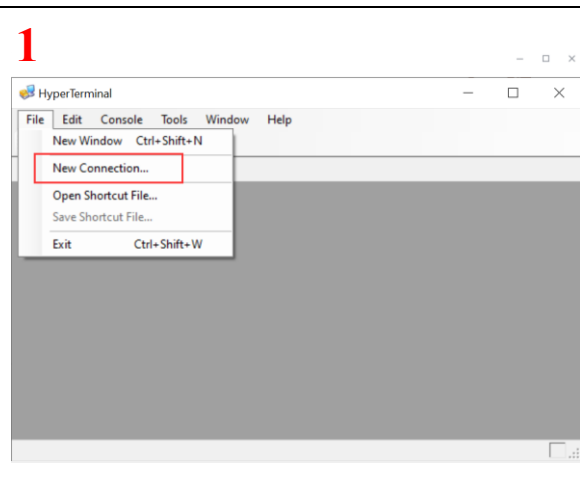
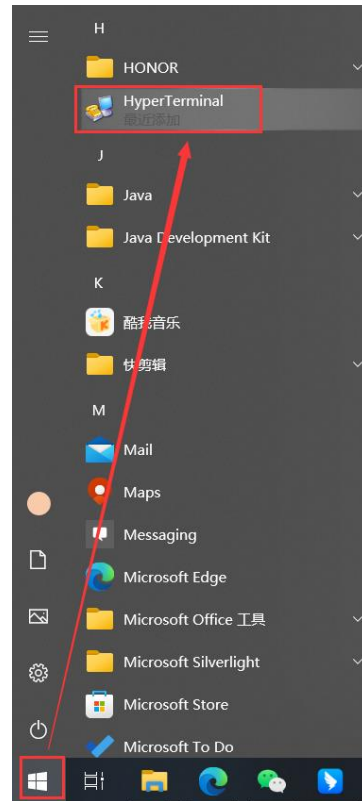
→New Connection

→COM3^{1*}

→Encoding

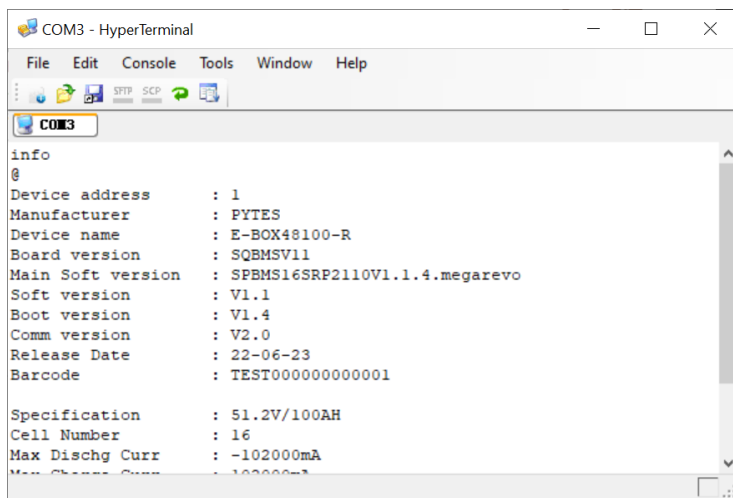
→utf-8(latin)

1*: The port number depends on your connection number. COM3 is the default setting.



Input "info" to check the parameters of battery.

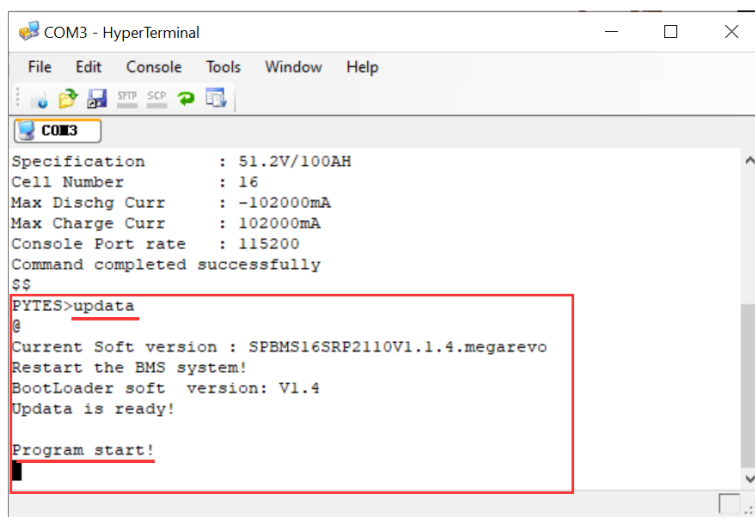
Note that some computer needs to install the driver for RS232 cable. Please install the driver in the folder before the upgrade if you fail to obtain the battery information.



```
COM3 - HyperTerminal
File Edit Console Tools Window Help
COM3
info
@
Device address      : 1
Manufacturer       : PYTES
Device name        : E-BOX48100-R
Board version      : SQBMSV11
Main Soft version  : SPBMS16SRP2110V1.1.4.megarevo
Soft version       : V1.1
Boot version       : V1.4
Comm version       : V2.0
Release Date      : 22-06-23
Barcode           : TEST0000000000001

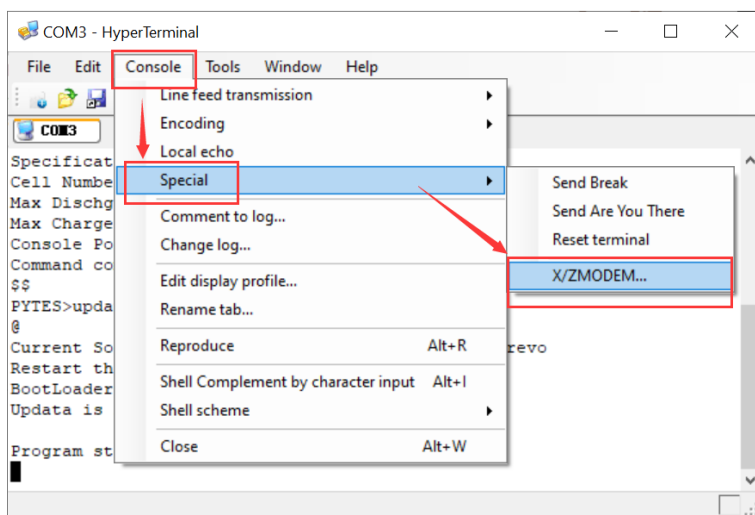
Specification      : 51.2V/100AH
Cell Number        : 16
Max Dischg Curr   : -102000mA
Max Charge Curr   : 102000mA
```

Input "updata" to get upgrade program started.

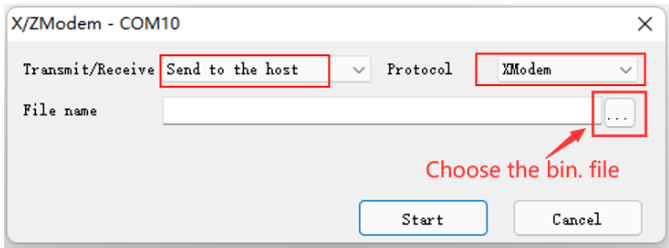
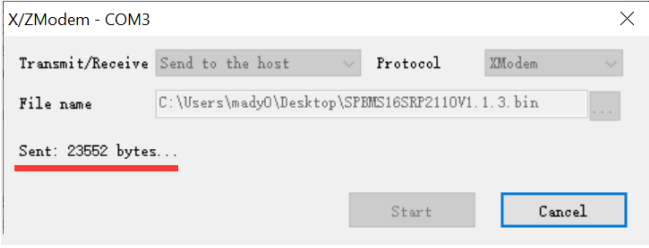
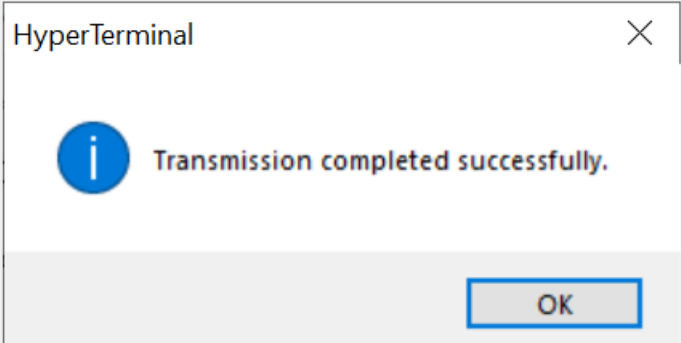


```
COM3 - HyperTerminal
File Edit Console Tools Window Help
COM3
Specification      : 51.2V/100AH
Cell Number        : 16
Max Dischg Curr   : -102000mA
Max Charge Curr   : 102000mA
Console Port rate : 115200
Command completed successfully
$$
PYTES>updata
@
Current Soft version : SPBMS16SRP2110V1.1.4.megarevo
Restart the BMS system!
BootLoader soft version: V1.4
Updata is ready!
Program start!
```

Click Console
→Special
→X/ZMODEM



```
COM3 - HyperTerminal
File Edit Console Tools Window Help
COM3
Specification      : 51.2V/100AH
Cell Number        : 16
Max Dischg Curr   : -102000mA
Max Charge Curr   : 102000mA
Console Port rate : 115200
Command completed successfully
$$
PYTES>updata
@
Current Soft version : SPBMS16SRP2110V1.1.4.megarevo
Restart the BMS system!
BootLoader soft version: V1.4
Updata is ready!
Program start!
```

| | |
|--|--|
| <ol style="list-style-type: none"> 1. Select “Send to the host” for Transmit/Receive 2. Select XModem for Protocol 3. Review the bin. file path |  |
| <p>Start Data Sending.</p> <p>If there is a time out message, please restart the battery and connect again.</p> |  |
| <p>Transmission completed</p> |  |

Input “info” again to check the battery Main Soft Version.

Make sure it is the same as the bin. file name we offered.

Check the Barcode that should remain the same as the S/N in the battery label.

If not, please input “tbar” + SN to rewrite the barcode. Note that the SN is 4 digits capital letters and 12 number digits.

```
COM4 - HyperTerminal
File Edit Console Tools Window Help
COM4
info
@
Device address      : 1
Manufacturer       : PYTES
Device name        : E-BOX48100-R
Board version      : SQBMSV11
Main Soft version  : SPBMS16SRP2110V1.1.3
Soft version       : V1.1
Boot version       : V1.4
Comm version       : V2.0
Release Date      : 22-06-06
Barcode           : TEST000000000002

Specification      : 51.2V/100AH
Cell Number        : 16
Max Dischg Curr   : -102000mA
Max Charge Curr   : 102000mA
Console Port rate : 115200
Command completed successfully
$$
PYTES_debug: tbar TEST000000000001
@
Test result: pass
Barcode: TEST000000000001
Command completed successfully
$$
```