

ESP32 写字机控制板接入本地 WiFi 网络方法

1、为什么要接入本地网络，接入本地网络有什么优势？

优势一、接入本地网络后，在不影响上网的情况下，可以通过手机、平板、电脑等只要有浏览器功能的设备，通过浏览器访问写字机 IP，实现远程控制。

优势二、摆脱数据线束缚，将编写好的程序通过 WEB 网页远程上传到控制板上的 tf 存储卡中，并通过网页远程执行该程序，实现远程脱机操作，更稳定，更方便！

2、如何接入本地 WiFi？

首先，要知道以下信息

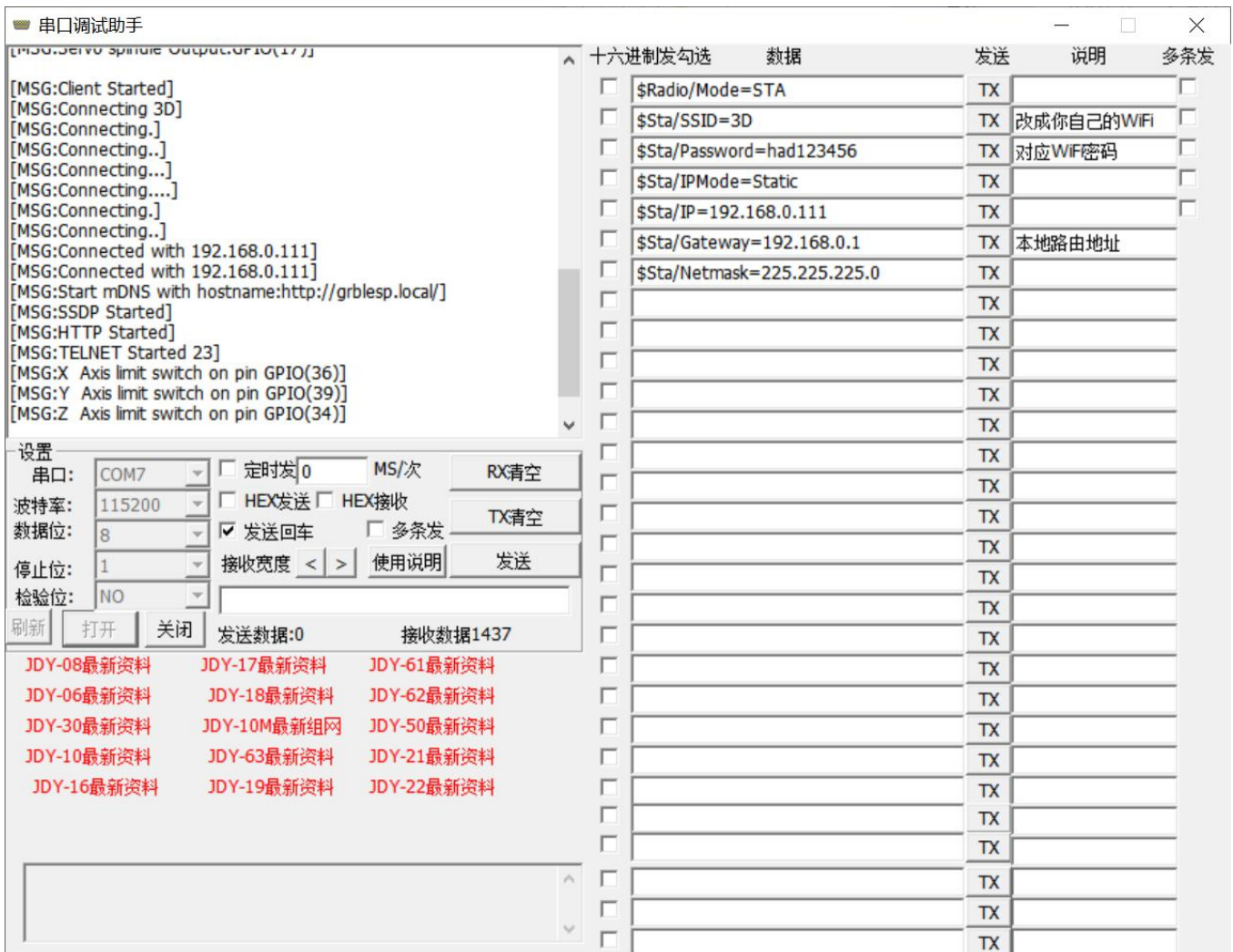
本地 WiFi 名称：**3D**(这里以“3D”为例，只支持英文名)

本地 WiFi 密码：**had123456** (“3D”这个 WiFi 的密码)

本地路由 IP 地址：**192.168.0.1** (可以通过手机查看网关)

其次，打开串口调试工具

依次点击 TX 发送指令，全部 OK 后按下控制板复位键，直到出现“**connected with 192.168.0.111**” (此 IP 地址可以自定义，但务必与路由 IP 保持同一网段)，然后就可以浏览器输入“**192.168.0.111**”进行远程访问控制了。



The image shows a serial terminal application window titled "串口调试助手". The main area displays a log of messages from an ESP32 device, including connection status, mDNS setup, and axis limit switch reports. On the right side, there is a configuration table for sending commands to the device via TX.

十六进制发勾选	数据	发送	说明	多条发
<input type="checkbox"/>	\$Radio/Mode=STA	TX		<input type="checkbox"/>
<input type="checkbox"/>	\$Sta/SSID=3D	TX	改成你自己的WiFi	<input type="checkbox"/>
<input type="checkbox"/>	\$Sta/Password=had123456	TX	对应WIF密码	<input type="checkbox"/>
<input type="checkbox"/>	\$Sta/IPMode=Static	TX		<input type="checkbox"/>
<input type="checkbox"/>	\$Sta/IP=192.168.0.111	TX		<input type="checkbox"/>
<input type="checkbox"/>	\$Sta/Gateway=192.168.0.1	TX	本地路由地址	<input type="checkbox"/>
<input type="checkbox"/>	\$Sta/Netmask=225.225.225.0	TX		<input type="checkbox"/>
<input type="checkbox"/>		TX		<input type="checkbox"/>
<input type="checkbox"/>		TX		<input type="checkbox"/>
<input type="checkbox"/>		TX		<input type="checkbox"/>
<input type="checkbox"/>		TX		<input type="checkbox"/>
<input type="checkbox"/>		TX		<input type="checkbox"/>
<input type="checkbox"/>		TX		<input type="checkbox"/>
<input type="checkbox"/>		TX		<input type="checkbox"/>
<input type="checkbox"/>		TX		<input type="checkbox"/>
<input type="checkbox"/>		TX		<input type="checkbox"/>
<input type="checkbox"/>		TX		<input type="checkbox"/>
<input type="checkbox"/>		TX		<input type="checkbox"/>
<input type="checkbox"/>		TX		<input type="checkbox"/>
<input type="checkbox"/>		TX		<input type="checkbox"/>
<input type="checkbox"/>		TX		<input type="checkbox"/>
<input type="checkbox"/>		TX		<input type="checkbox"/>
<input type="checkbox"/>		TX		<input type="checkbox"/>
<input type="checkbox"/>		TX		<input type="checkbox"/>
<input type="checkbox"/>		TX		<input type="checkbox"/>
<input type="checkbox"/>		TX		<input type="checkbox"/>
<input type="checkbox"/>		TX		<input type="checkbox"/>
<input type="checkbox"/>		TX		<input type="checkbox"/>

At the bottom of the window, there are settings for the serial port (COM7, 115200 baud rate, 8 data bits, 1 stop bit, NO parity) and a list of links for "JDY" series documents, such as "JDY-08最新资讯" and "JDY-62最新资讯".

如何将 WEB 控制界面升级成中文

The image shows the FluidNC Settings web interface. At the top, there are five icons: a blue menu icon, a green folder icon, an orange upload icon, a red power icon, and a blue refresh icon. A callout box points to the green folder icon with the text "点击绿色文件夹" (Click the green folder).

Below the icons, there are two radio buttons: "Flash Settings" (selected) and "Config Item". Below that is a table with the following content:

Label	Value
Station SSID	3D

At the bottom of the table, there are "Set" and "Q" buttons.

The second part of the image shows a "FluidNC Local Filesystem" window. It has a title bar with a close button (X). Inside, there is an "Upload files" button and the text "No file chosen". A callout box points to the "Upload files" button with the text "点击上传 index.html.gz 这个文件" (Click upload this file index.html.gz).

Below the upload area, there are two icons: a blue folder icon with a plus sign and a blue folder icon with a slash. Below these icons is a table with the following headers:

Type	Name	Size
------	------	------

At the bottom of the window, there is a progress bar showing "Total: 169.38 KB | Used: 251 B" and "0%". At the very bottom right, there are "Close" and "Refresh" buttons.

FluidNC Local Filesystem



Upload files

No file chosen

上传成功后刷新浏览器



Type

Name

Size



index.html.gz

106.98 KB



Total: 169.38 KB | Used: 108.34 KB  63%

Upload done

Close



ESP3D for GRBL ESP32 SD

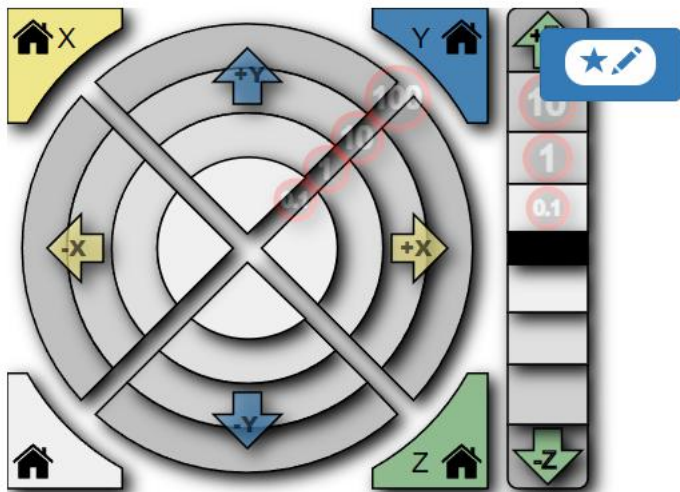
仪表盘

GRBL

ESP3D

常用命令

控制



ØXYZ

Ø Xw:0.000 Ø Yw:0.000 Ø Zw:0.000
Xm:0.000 Ym:0.000 Zm:0.000

XY: 1000 毫米/分钟 Z: 100 毫米/分钟