Remote Login

Remote Login

- 1. Enable SSH service
- 2. Enable VNC service
- 3. Serial port login
- 4. VNC log in
- 5. SSH log in

This section will show you how to log in remotely via the serial port and network (VNC, SSH).

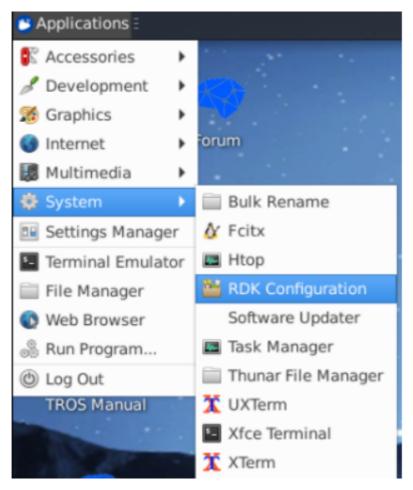
Before logging in remotely via the network, the development board needs to be connected to the network via wired Ethernet or wireless WiFi, and the IP address of the development board needs to be configured.

For the IP address information under the two connection methods, please refer to the following description:

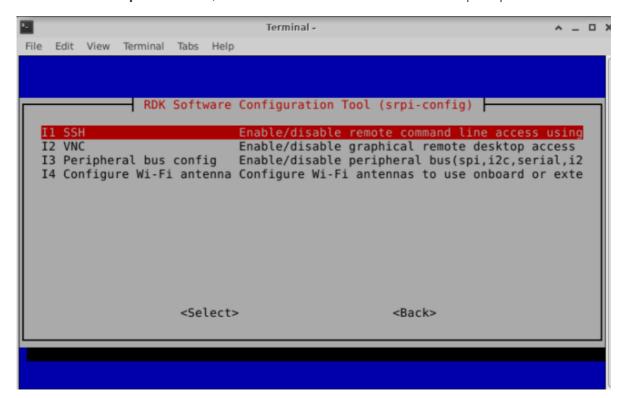
- Wired Ethernet: The development board uses static IP mode by default, with an IP address of 192.168.1.10, a mask of 255.255.255.0, and a gateway of 192.168.1.1
- Wireless WiFi: The IP address of the development board is generally assigned by the router. You can view the IP address of the wlan0 network through the ifconfig command in the device command line

1. Enable SSH service

Find the **RDK Configuration** item on the menu bar and click to open it.

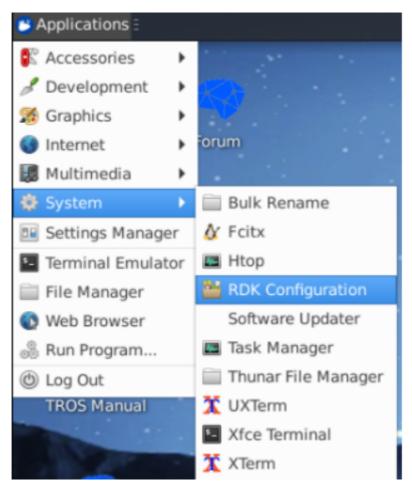


Select **Interface Options** -> **SSH**, and enable or disable the SSH service as prompted.



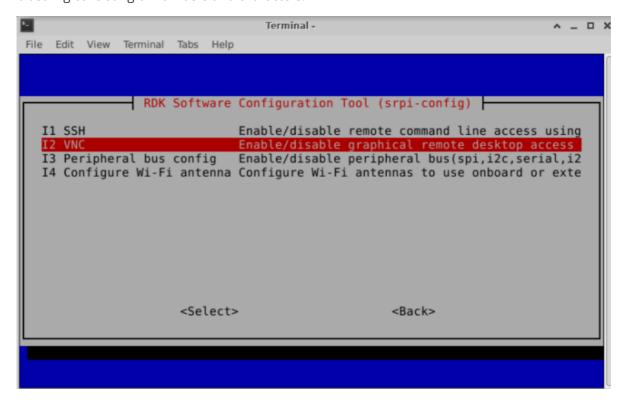
2. Enable VNC service

Find the **RDK Configuration** item on the menu bar and click to open it.



Select **Interface Options** -> **VNC**, and enable or disable the VNC service according to the prompts.

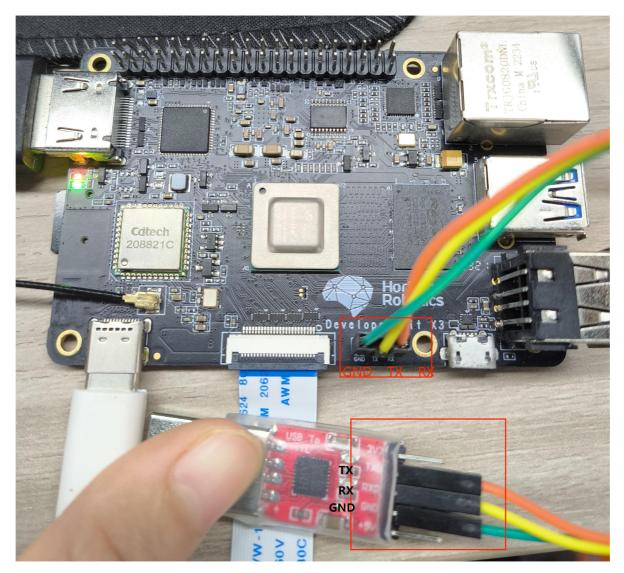
When you choose to enable VNC, you need to set a login password. The password must be an 8-bit string consisting of numbers and characters.



3. Serial port login

Before logging in via the serial port, you need to confirm whether the serial port cable of the development board is correctly connected to the computer.

The connection method is as follows.



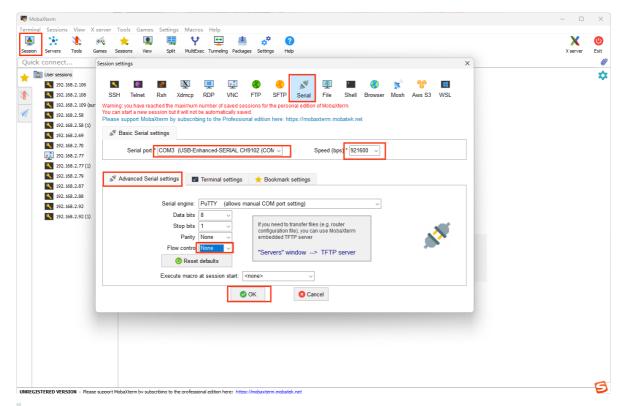
Connect the serial port module to the USB port on the PC. Serial port login requires the use of PC terminal tools. Commonly used tools include Putty, Mobaxterm, etc. Users can choose according to their own usage habits.

The port configuration process of different tools is basically similar. The following takes

Mobaxterm as an example to introduce the process of creating a new serial port connection.

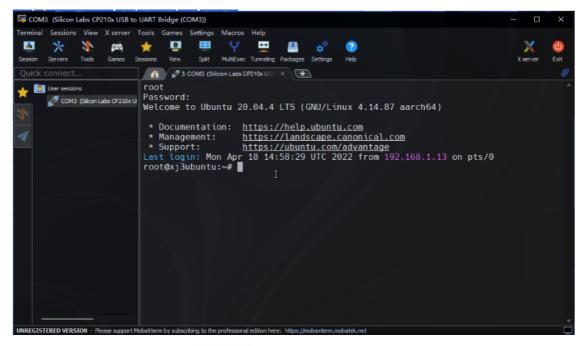
- Open the Mobaxterm tool, click Session, and then select Serial
- Configure the port number, for example, COM3. The actual serial port number used is based on the serial port number recognized by the PC.
- Set the serial port configuration parameters.

| Baud rate | 921600 |
|--------------|--------|
| Data bits | 8 |
| Parity | None |
| Stop bits | 1 |
| Flow Control | NO |



If you cannot find the serial port device here, please download the serial port driver first, unzip [Serial Port Driver_CP210x_USB2UART_Driver.zip] in [Common Software], double-click dpinst64.exe to install the system driver of the serial port module, and then try again.

• Click OK, enter username: root, password: root to log in to the device.



 At this point, you can use the ifconfig command to query the IP address of the development board.

eth0 and wlan0 represent wired and wireless networks respectively.

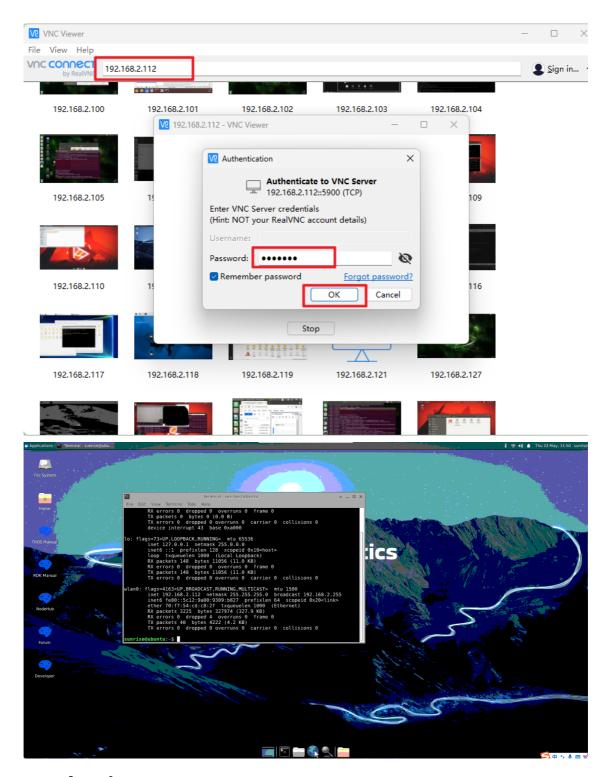
4. VNC log in

This section is for users who use the Ubuntu Desktop system version. It introduces how to use VNC Viewer to achieve remote desktop login function.

VNC Viewer is a graphical desktop sharing software that can realize remote device login and desktop control on the computer.

This software can preview the development board system desktop through the computer monitor and use the computer's mouse and keyboard for remote operation.

• Open VNC Viewer, Enter the IP address of the development board, fill in the VNC login password set in [Enable VNC service], and click OK to log in.



5. SSH log in

In addition to logging into the remote desktop through VNC, you can also log in to the development board through SSH connection.

The following takes Mobaxterm as an example to introduce the process of creating a new SSH connection:

- Open the Mobaxterm tool, click Session, and then select SSH
- Enter the IP address of the development board, for example, 192.168.1.10
- Select specify username, enter sunrise, and click ok.

