

Go1-Edu Raspberry Pi built-in wireless network card settings

The Go1-Edu motion control host Raspberry Pi has a built-in wireless card wlan0 that can be used to connect to WiFi (wlan1 is used to transmit hotspots), which can sometimes be used to connect to the network temporarily (but it is more recommended to use an external wireless or wired network card).

1.

1.1 Connect the wifi

Open the cover on the back of the robot dog and plug the HDMI monitor and mouse keyboard into the port near the network



On the top right corner of the Raspberry Pi's desktop, click the network icon to connect to the network.

1.2 Setting up the routing table

If you are connected to WiFi but cannot access the external network, you can try the following steps.

Open the terminal

```
ifconfig
```

```
#View the network information of wlan0 and check the gateway address
```

```
ping 192.168.xxx.1
```

```
#xxx is the address of wlan0 viewed in the previous step, ping it to see if it's through, it should be through normally
```

```
ping baidu.com
```

```
#ping a little Baidu, normal can resolve the IP, but the network is not reachable, if this is the case, then the implementation of the next step
```

```
sudo route add default gw 192.168.xxx.1
```

```
#Add the gateway address of the wireless network to the routing table
```

```
ping baidu.com
```

```
#Ping Baidu again, you can ping through, normal has been able to access the Internet
```

After reboot, this setting will be restored and the gateway needs to be added to the routing table again.

2.

2.1 No wireless signal

If you are unable to connect to WiFi on the desktop of the Raspberry Pi, you can try the following steps.

Open terminal:

```
sudo ifconfig wlan0 down
```

```
sudo ifconfig wlan0 up
```

At this point it should be possible to connect to the network via the desktop.