

Open the Resource Monitoring Panel

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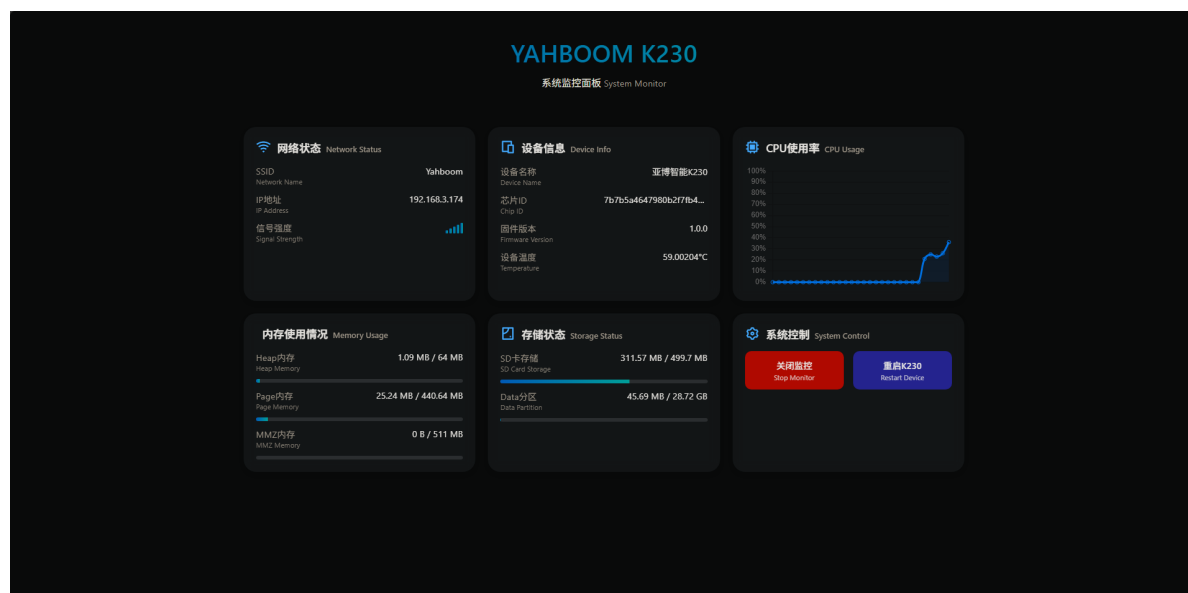
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introduce

YAHBOOM K230 has a built-in visual resource monitoring panel, which needs to be opened in a WIFI environment

The effect is as follows



run

The example code of this section is located in [Source Code Summary/11.Network/09.Monitor/monitor.py]

```
import ybutils.monitor as monitor
monitor.run("[WIFI SSID]", "[WIFI PASSWORD]")
```

We run this code on K230, and normally we will see the following output in the console

```
MPY: soft reboot
[WIFI] WIFI connecting.... wifi connecting...
[Monitor] WIFI connection successfulConnect success!
[Monitor] Starting server running server...
[Monitor] Server started successfully K230 SERVER RUNIGN ON
http://192.168.3.174:8082/
```

Then we use a mobile phone or computer **with the same WIFI** as K230 to open the browser

Enter <http://192.168.3.174:8082/> in the address bar and press Enter

Note that the address here **is** the information output **in** the console, **and** the address information printed by each person **is** different

Extended Operations

Asynchronous Execution

The system monitoring panel code is executed in a multi-threaded manner.

So you can insert this code to start the resource monitoring panel in any code

This operation has a certain degree of difficulty

But please note:

1. Due to the computing resource limitations of K230, running the Resource Monitoring Panel in more complex code may cause the system to freeze.
2. Micropython's multithreading mechanism is **non-preemptive** software multithreading, so in your original code, you must add `time.sleep(1)` in the loop to manually release CPU resources, otherwise the resource monitoring panel will not be able to obtain CPU execution permissions, resulting in the panel being unable to access normally.

API

The information in the Resource Monitoring Panel is essentially

```
http://192.168.3.174:8082/status
```

The original return value obtained by the interface is as follows

```
{
  "wifi_mode": "sta",
  "temperature": 56.30499,
  "page_memory": {
    "available": 435601408,
    "total": 462045184
  },
  "chip_id" :
  "7b7b5a4647980b2f7fb489196b8539e10167270eaed625fa260b83a8be848e18" ,
  "mmz_memory": {
    "available": 535822336,
    "total": 535822336
  }
}
```

```
},
"device_name" : "亚博智能K230" ,
"sdcard_storage": {
    "available": 197263360,
    "total": 523968512
},
"data_storage": {
    "available": 30789533696,
    "total": 30837440512
},
"wifi_ip": "192.168.3.174",
"wifi_signal": -49,
"wifi_ssid": "Yahboom",
"firmware_version": "1.0.0",
"heap_memory": {
    "available": 65962464,
    "total": 67108864
},
"cpu_usage": 27
}
```

You can obtain the operation information of K230 by calling this interface.