

## IWAP2000 Power Consumption

IWAP2000 is a low power WiFi client device. It can be powered from the internal battery or the external 5VDC regulated power. Under different usage modes, the IWAP2000 has different power consumption. This application note gives you the reference power consumption and operating time for you to plan the power budget.

### External Power

The power consumption should not exceed 200mA unless the hardware of the IWAP2000 is damaged. The IWAP2000 can run from external 5VDC regulated power rating @200mA. However, it is recommended to have at least 5VDC@500mA regulated external power for full-speed charging.

The IWAP2000 comes with a 5VDC@1.5A AC adapter. This adapter can definitely cover the power requirement.

### RS232 Mode

RS232 is the most popular serial interface. The power consumption is listed in the following table:

Operation Mode	Power Consumption
TX	135mA
Idle	55mA
Sleep	7mA
Sleep with RS232 power	0.5mA

Typical fully-charged battery operating time:

Operation Condition	Operating Time
Awake with periodical transmission	10 Hours
Sleep with periodical wake-up (No RS232 power)	100 Hours
Sleep with periodical wake-up (with RS232 power)	500 Hours

### RS485 Mode

RS485 is the popular long distance serial interface. It has the distance advantage over

RS232. The power consumption is listed in the following table:

Operation Mode	Power Consumption
TX	130mA
Idle	50mA
Sleep	2mA

Typical fully-charged battery operating time:

Operation Condition	Operating Time
Awake with periodical transmission	10 Hours
Sleep with periodical wake-up	250 Hours

#### RS422 Mode

RS422 is the full-duplex version of RS485. It consumes most power among the 3 serial interfaces. The power consumption is listed in the following table:

Operation Mode	Power Consumption
TX	160mA
Idle	75mA
Sleep	26mA

Typical fully-charged battery operating time:

Operation Condition	Operating Time
Awake with periodical transmission	8 Hours
Sleep with periodical wake-up	30 Hours

#### Technical Support

If you encounter any technical issues while using IWAP2000, do not hesitate to contact us at Atech. Our technical staff will help you resolve the technical issues. You

can contact us by email or phone. The following is our technical contact:

Hours: 9:30AM to 5:30PM (GMT+08:00)

Email: [wifi.support@atechtpe.com.tw](mailto:wifi.support@atechtpe.com.tw)

Phone: +886.2.6629.6667