

HA-5231M Quick Start

This Quick Start will provide information needed to get started with HA-5231M. Please also consult the User Manual for detailed information on the setup and use of HA-5231M.

What's In the Box ?

The package includes the following item:



HA-5231M



Software CD



CA-0910 Cable



Quick Start



Screw Driver



MicroSD Card



DIN-Rail Clip



Screw * 4



Terminal * 16

Technical Support

- **HA-5231M User Manual**
http://ftp.icpdas.com/pub/cd/ba-ha/ha-5231m/user_manual

- **HA-5231M Website**

http://www.icpdas.com/root/product/solutions/ba_ha/ha-5231m.html

Overview

Here is a brief overview of the components and its descriptions for module status.



► LED Indicators

The HA-5231M module has 4 LED indicators. The details are shown as below..



LED Indicator	Color	Meaning
PWR	Green	Power is on
RUN	Red	Application is running
L0	Green/Red	Reserve
L1	Green/Red	Reserve
L2	Green/Red	Reserve

► microSD Slot

The microSD slot can be used to restore the HA-5231M system, firmware update and expand the memory up to 32 GB.

► RSW (Rotary Switch)

Rotary Switch is an operating mode selector switch which provides seven functions related to the selection of the operating mode.



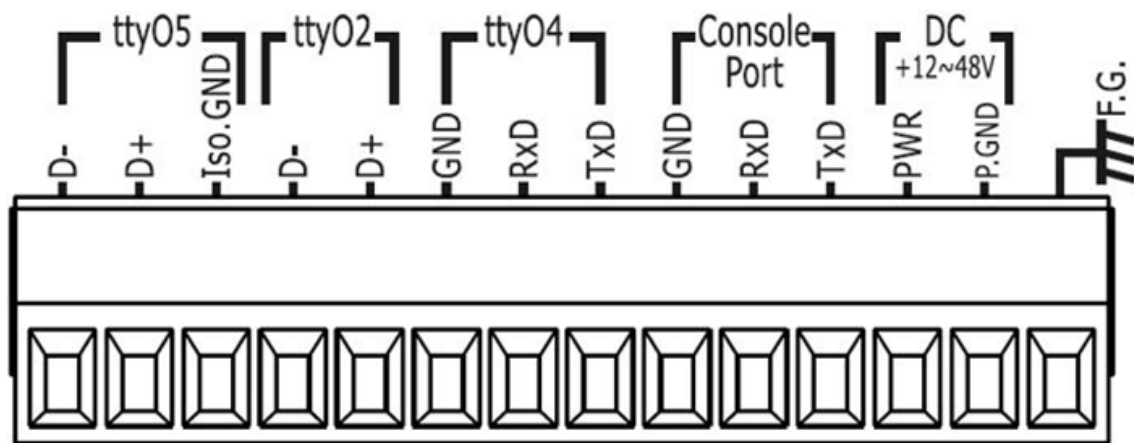
RSW Value	Function
0	Normal
1	Set network interface to DHCP mode
2	Set network interface to static IP mode. IP: 192.168.255.1 Mask: 255.255.0.0 Gateway: 192.168.0.254
3	Recover system settings
4	Firmware Update Mode

► Ethernet Port

The HA-5231M has an Ethernet port that can be connected to SIP communication network via an Ethernet cable. Ethernet ports accept cables with RJ-45 connectors.

► Pin Assignment

The pin assignments of the HA-5231M connector are as follows:



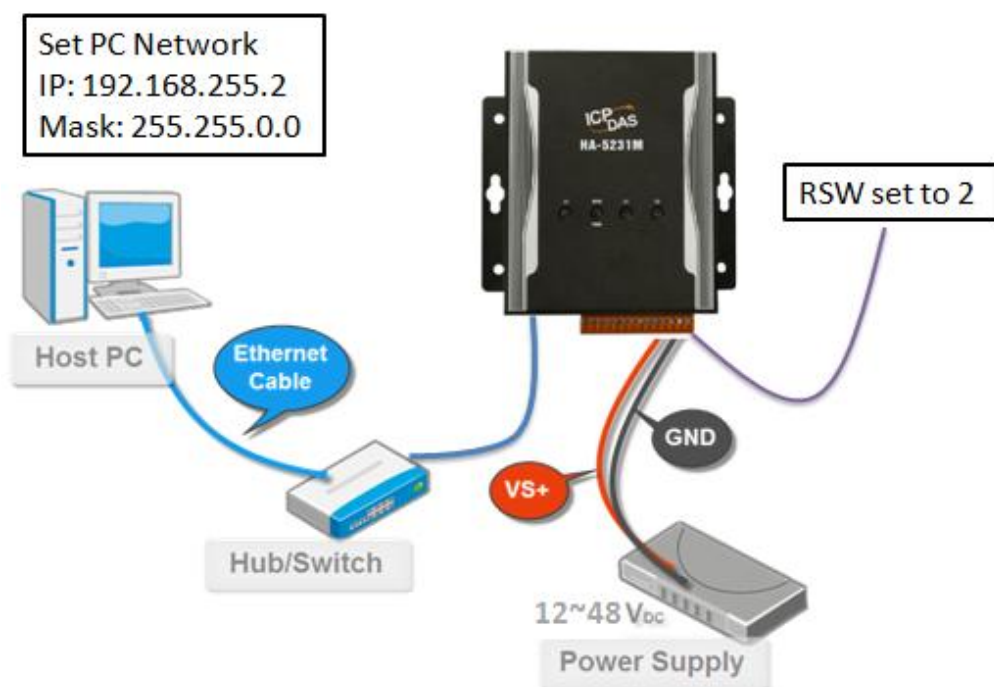
Pin	Name	Description
1	D-	
2	D+	ttyO5 (Reserve)
3	Iso.GND	
4	D-	ttyO2 (Reserve)
5	D+	
6	GND	
7	RxD	ttyO4 (Reserve)
8	TxD	
9	GND	
10	RxD	Console Port
11	TxD	
12	PWR	V+ of Power Supply
13	P.GND	GND of Power Supply
14	F.G	Frame Ground

Let's Start

In the following examples the MicroSIP utility is used. It allowing to do high quality VoIP calls (person-to-person) via open SIP protocol.

► Connecting to Network, PC and Power

The HA-5231M is equipped with an RJ-45 Ethernet port for connection to an Ethernet hub/switch and PC. Please set RSW of HA-5231M and PC Network as below.



► Installing the MicroSIP Utility

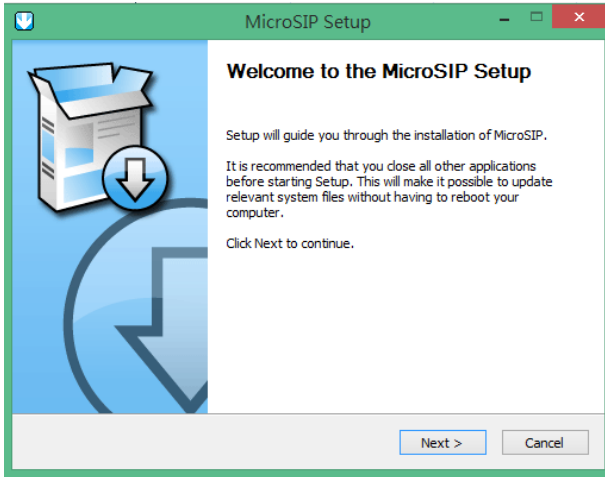
The MicroSIP Utility is an open source portable SIP softphone based on PJSIP stack for Windows OS. The user can use this Utility to connect with HA-5231M.

Step 1: Get the MicroSIP Utility tool



The MicroSIP Utility can be obtained from below link:
<http://www.microsip.org/downloads>

Step 2: Follow the prompts to complete the installation



► Using MicroSIP Utility connect to HA-5231M

When RSW of HA-5231M set to 7, HA-5231M will use a default IP settings to connect PC.

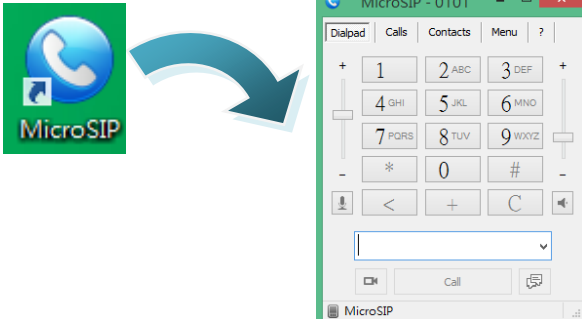
The default IP settings are as follows:

HA-5231M	
IP Address	192.168.255.1
Subnet Mask	255.255.0.0

PC side	
IP Address	192.168.255.2
Subnet Mask	255.255.0.0

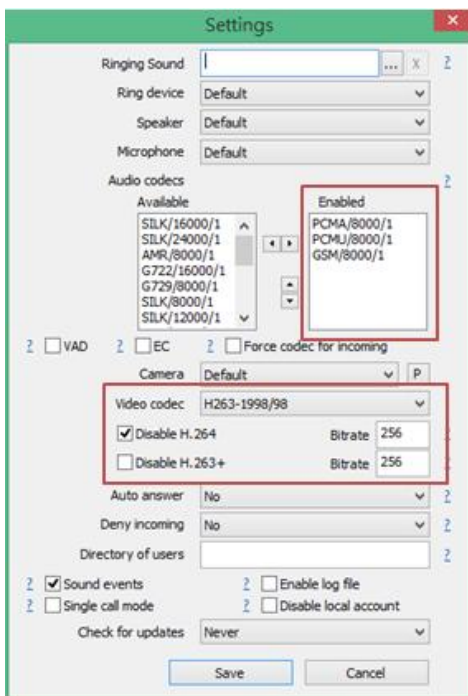
Step 1: Run the MicroSIP Utility

Double-click the MicroSIP Utility shortcut on your desktop.

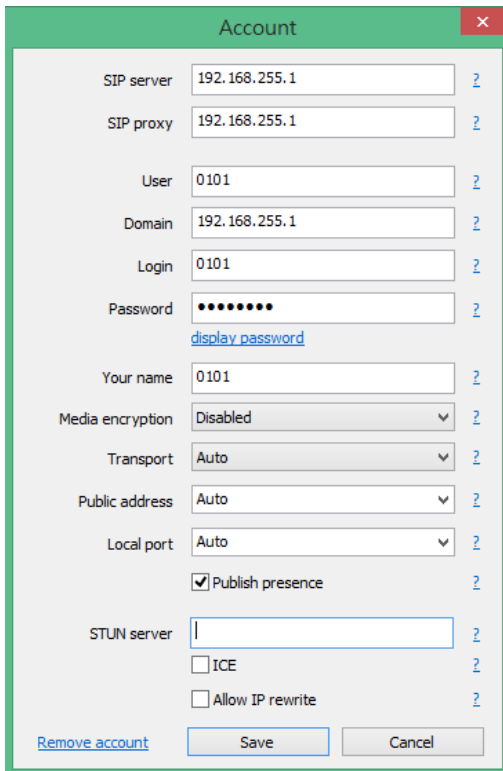


Step 2: MicroSIP settings

- Click Menu => Settings
- Select audio codec (enable PCMU, PCMA, GSM) and video codec (enable H.263+)
- Press the Save button to save the settings.



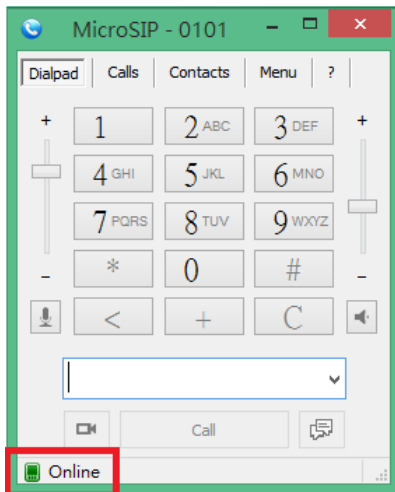
- Client Menu => Add account
- Input account settings, as shown in the below.



SIP Server: 192.168.255.1
SIP Proxy: 192.168.255.1
User: 0101
Domain: 192.168.255.1
Login: 0101
Password: admin123

Your name: 0101
Media encryption: Disable
Transport: Auto
Public address: Auto
Local port: Auto
Publish presence: Enable

- f. Press the Save button to save the settings
- g. After completing the above setting procedure, MicroSIP will register the user with HA-5231M and will show online status.



At this time, the user has completed the connection procedure.