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:



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
LO	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		

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-	$tt_{V}(O2)$ (Baser (o))
5	D+	liyOz (Reserve)
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 a 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



Step 2: Follow the prompts to complete the installation

	MicroSIP Setup – 🗆 🗙
m	Welcome to the MicroSIP Setup
	Setup will guide you through the installation of MicroSIP.
	It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.
({	Click Next to continue.
	Next > Cancel

➤ 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

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

	C. CHARLES	10	1000
	Ringing Sound	1. Contraction of the second s	***
	Ring device	Default	
	Speaker	Default	
	Microphone	Default	
	Audio codecs	, barren and a start	
	Available	En	abled
	SILK/160 SILK/240 AMR/800 G722/16/ G729/80 SILK/800 SILK/120	00/1 00/1 00/1 00/1 00/1 00/1 00/1 00/1 00/1 • • • • • • • • • • • • • • • • • • •	IA/8000/1 IU/8000/1 I/8000/1
Z VAD	2	2 Force codec for	incoming
	Camera	Default	~
	Video codec	H263-1998/98	
	Disable H.	264 E	itrate 256
	0.21		
	Disable H.	263+ 8	strate 256
	Disable H. Auto answer	263+ E	itrate 256
	Disable H. Auto answer Deny incoming	263+ E No No	Strate 256
Din	Disable H. Auto answer Deny incoming ectory of users	263+ E No No	Strate 256
Dire 2 Sound 2 Single	Disable H. Auto answer Deny incoming ectory of users events call mode	No Image: Constraint of the second sec	strate 256

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

Account			
SIP server	192.168.255.1	2	
SIP proxy	192.168.255.1	2	
User	0101	2	
Domain	192.168.255.1	2	
Login	0101	2	
Password	•••••	2	
	display password		
Your name	0101	2	
Media encryption	Disabled V	2	
Transport	Auto 🗸	2	
Public address	Auto 🗸	2	
Local port	Auto 🗸	2	
	✓ Publish presence	2	
STUN server	1	2	
		2	
	Allow IP rewrite	2	
Remove account	Save Cancel		

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.

🕒 MicroSIP - 0101 🛛 🗖 🗙				
Dialpa	d Calls	Contacts	Menu ?	
+	1	2 АВС	3 DEF +	
\square	4 ані	5 JKL	6 мно	
	7 PORS	8 TUV	9 wxyz	
-	*	0	#	
<u>.</u>	<	+	C	
↓				
		Call	Ģ	
🗑 Online 🛛 🔐				

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