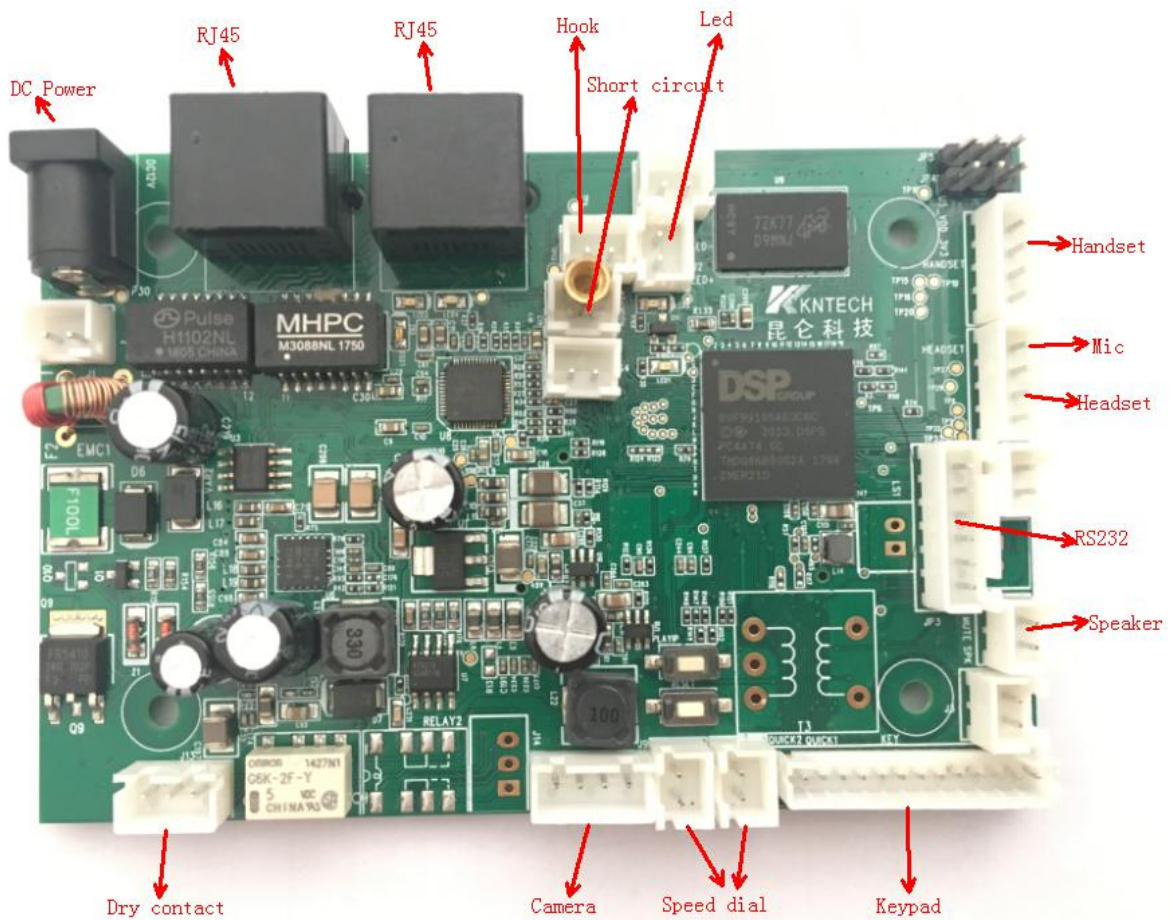


KN519A VIDEO VoIP BOARD

USER MANUAL





Safety Notices

Please read the following safety notices before installing or using this board. They are crucial for the safe and reliable operation of the device.

- Please use the external power supply that is included in the package. Other power supplies may cause damage to the board, affect the behavior or induce noise.
- Before using the external power supply in the package, please check with the power voltage. Inaccurate power voltage may cause fire and damage. Please do not damage the power cord. If power cord or plug is impaired, do not use it, it may cause fire or electric shock.
- The plug-socket combination must be accessible at all times because it serves as the main disconnecting device.
- You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents.

1. Introducing KN519A VoIP Video Board

1.1. Thank you for your purchasing KN519A VoIP Board

Thank you for your purchasing KN519A, KN519A is a industrial grade PCB board that provides voice communication over the same data network that your computer uses.

This guide will help you easily set up the board.

The board has two Network ports: The WAN port and the LAN port. Before you connect the power source, please carefully read Safety Notices below

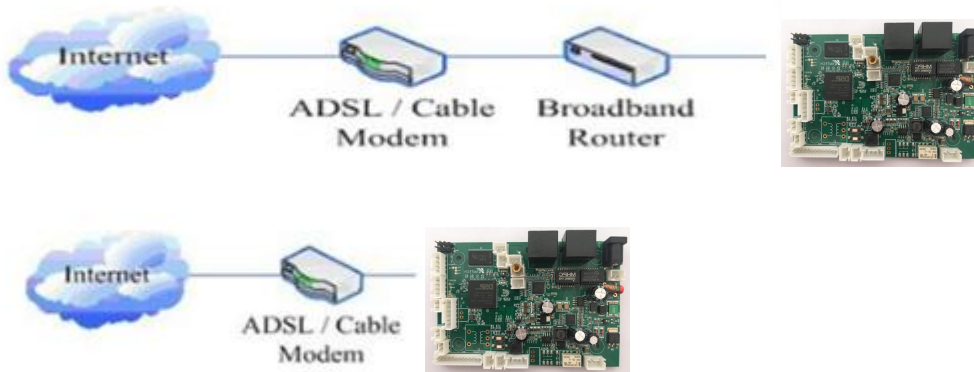
2. Initial connecting and Setting

2.1. Connect the board

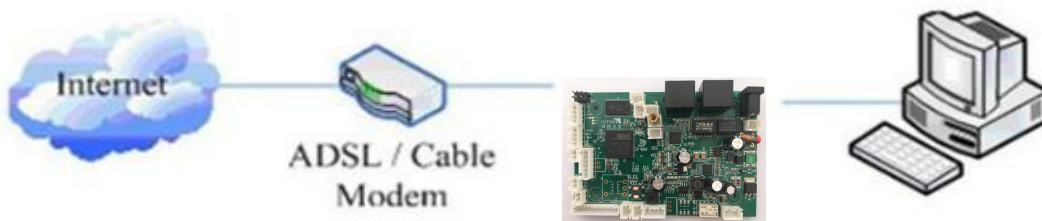
Step 1: Connect the IP Phone to the corporate IP telephony network. Before you connect the board to the network, please check if your network can work normally.

You can do this in one of two ways, depending on how your workspace is set up.

Direct network connection—by this method, you need at least one available Ethernet port in your workspace. Use the Ethernet cable in the package to connect WAN port on the back of the board to the Ethernet port in your workspace, you can make direct network connect. The following two figures are for your reference.



Shared network connection—Use this method if you have a single Ethernet port in your workspace with your desktop computer already connected to it. First, disconnect the Ethernet cable from the computer and attach it to the WAN port on the back of the board. Next, use the Ethernet cable in the package to connect LAN port on the back of the board to your desktop computer. Your IP Phone now shares a network connection with your computer. The following figure is for your reference.





3. Basic Functions

3.1. Basic operation

3.1.1. Accepting a call

- Press the button to accept incoming calls or it will auto-answer. Please set hotline in advance.

3.1.2. Making a call

- Press the button, it will dial out.

3.1.3. Ending a call

- Press the button to end calls or it will auto-terminated the calling.

3.1.4. Setting a hotline number

- Please refer to “4.2.2. Config” on Page 6..

4. Operation

4.1 Setting via Web Browse

Set the computer and telephone in same LAN network;

When this phone and your PC are connected to network, open the Internet Explorer and then enter the IP address of the WAN port on the board (e.g. <http://xxx.xxx.xxx.xxx>). (If the log port is not standard port 80, you should input [http://xxx.xxx.xxx.xxx: xxxx/](http://xxx.xxx.xxx.xxx:xxxx/)) See the following web interface.

User: admin

Password: admin

The screenshot shows a web interface titled "Device Configuration". It contains three input fields: "User:" with the text "admin" entered, "Password:" with five dots, and "Language:" with a dropdown menu showing "English". Below these fields is a "Login" button.



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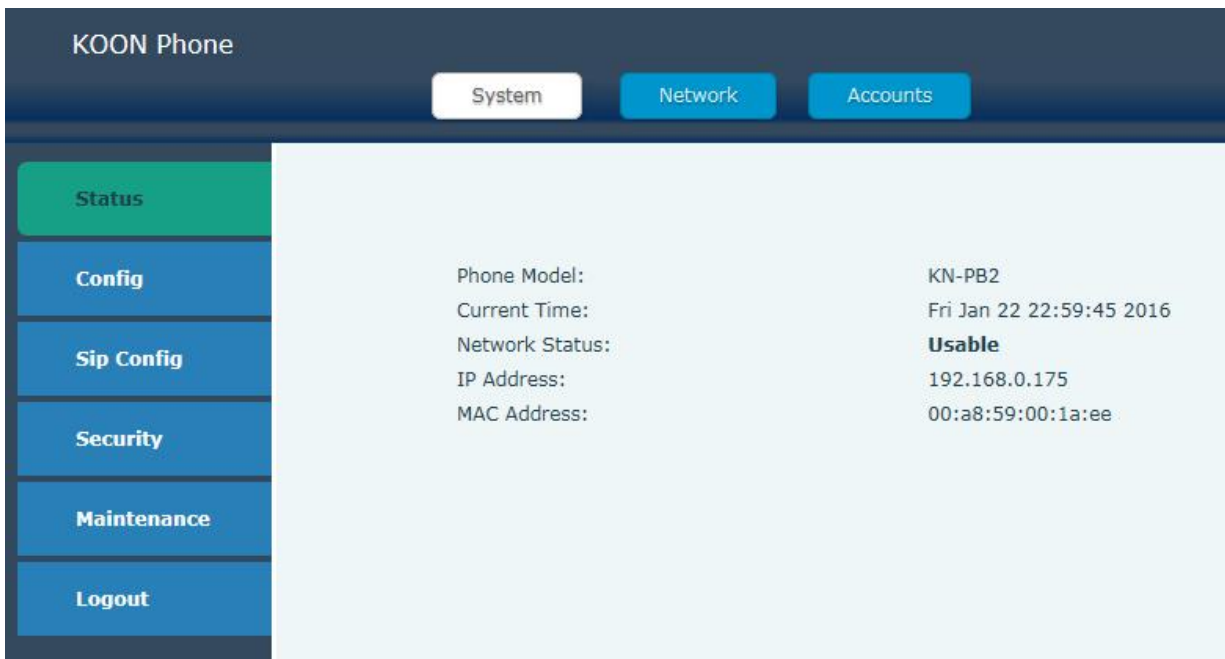
※ if you didn't save the setting, the system would the configuration last time when powered on next time. After changing the parameter, click **【Maintenance】** → **【SAVE】** , the configuration will be saved and take effect soon.

Before the below steps, please register the phone on your server. The solution **【SIP CONFIG】→**INPUT THE SERVER INFORMATION****

4.2 WEB Configuration

4.2.1 Status

STATUS	
Field Name	Explanation
System	Shows the model number, and current time, status and IP address
Network	Shows the status of connection and other information
Accounts	Shows the status of registration



2.2 SIP config

Get your SIP account from your server

Fill the IP address, port,account name, password and number as below.



KOON Phone

Status
 Config
Sip Config
 Security
 Maintenance
 Logout

Sip Configuration

SIP 1 SIP 2 SIP 3 SIP 4 SIP 5 SIP 6

Sip Enable:
 Register Switch:
 Unregister Switch:
 Register Expire: (30~3600)
 Display Name:
 Account Name:
 Auth ID:
 Password:
 User Agent:
 sip Heart Beat: period (1~60)

4.2.3 Config

4.2.3.1 Speed dial

Type: Hot key

Value: number

Line: SIP1/2/3/4

subtype: Speed Dial

You can set four groups in total, fill the information as below.

KOON Phone

Network Phone **Speed Dialing** Security TR069 Config FTP Config Time Language

Status
 Config
Sip Config
 Security
 Maintenance
 Logout

Keypad	Keypad Type	Enable	Value	Line	IP Address	Port
1	Quick <input type="button" value="v"/>	<input type="checkbox"/>	<input type="text" value="6018"/>	<input type="button" value="SIP1"/> <input type="button" value="v"/>	<input type="text" value="225.0.0.100"/>	<input type="text" value="50010"/>
2	Quick <input type="button" value="v"/>	<input type="checkbox"/>	<input type="text" value="999"/>	<input type="button" value="SIP1"/> <input type="button" value="v"/>	<input type="text"/>	<input type="text"/>
3	Quick <input type="button" value="v"/>	<input checked="" type="checkbox"/>	<input type="text" value="691"/>	<input type="button" value="SIP1"/> <input type="button" value="v"/>	<input type="text"/>	<input type="text"/>
4	Quick <input type="button" value="v"/>	<input type="checkbox"/>	<input type="text"/>	<input type="button" value="SIP1"/> <input type="button" value="v"/>	<input type="text"/>	<input type="text"/>
5	Quick <input type="button" value="v"/>	<input type="checkbox"/>	<input type="text"/>	<input type="button" value="SIP1"/> <input type="button" value="v"/>	<input type="text"/>	<input type="text"/>
6	Quick <input type="button" value="v"/>	<input type="checkbox"/>	<input type="text"/>	<input type="button" value="SIP1"/> <input type="button" value="v"/>	<input type="text"/>	<input type="text"/>

Voice Priority:

NO.	Enable	Priority	IP Address	Port
1	<input type="checkbox"/>	<input type="button" value="5"/> <input type="button" value="v"/>	<input type="text" value="225.0.0.100"/>	<input type="text" value="50010"/>
2	<input checked="" type="checkbox"/>	<input type="button" value="1"/> <input type="button" value="v"/>	<input type="text"/>	<input type="text"/>
3	<input checked="" type="checkbox"/>	<input type="button" value="1"/> <input type="button" value="v"/>	<input type="text"/>	<input type="text"/>



4.2.3.2 Network

You can set the connection type, auto-negotiation and network port.

KOON Phone

Network Phone Speed Dialing Security TR069 Config FTP Config Time Language

Status

Config

Sip Config

Security

Maintenance

Logout

Connection Type:

Static Ip

Static Netmask

Static Gateway

Primary DNS Server

Secondary DNS Server

auto-negotiation

Link 0 speed duplex

Link 1 speed duplex

Network Port

SIP Local Port

Http Mode

Http Port

Version: 1.0.0.38 b1c2

4.2.3.3 Phone

You can set auto-answer, hookOn wait time, ringer tone, volume settings and codecs settings.

Video Resolution HD 720P or HD 480P.

KOON Phone

Network Phone Speed Dialing Security TR069 Config FTP Config Time Language

Status

Config

Sip Config

Security

Maintenance

Logout

Auto Answer

(1~30)

Video Resolution

HookOn Wait Time

(1~30)

Set Ringer Tone

Ring Style Ring Volume (0~9)

Volume Settings

Mic Input Volume (1~9) Speak Output Volume (0~9)

Hot Line Settings

Phone

Codecs Settings

Preference 1:

Version: 1.0.0.38 b1c2



4.2.3.4 Security

Supports 2 output setting

Supports modification on Output Level, Output Trigger Mode (Ring, on hook, talking, DTMF)

The screenshot displays the 'Security' configuration page for a KOON Phone. The page is titled 'KOON Phone' and has a navigation bar with tabs for Network, Phone, Speed Dialing, Security (selected), TR069 Config, FTP Config, Time, and Language. A left sidebar contains menu items: Status, Config, Sip Config, Security (highlighted), Maintenance, and Logout. The main content area shows the 'Sealing Condition' as 'Intact'. Under 'Output Settings', there are two output configurations. Each output has a dropdown menu for 'Output 1' and 'Output 2', both currently set to 'Null'. For each output, there are three 'Output Level' dropdown menus, all set to 'Low Level'. The 'Output Trigger Mode' is set to 'Ring' for both. There are also 'Ring' and 'Hook' input fields. The 'Output Duration' is set to 'Custom Seconds' for both, with values of 0 and 5 respectively. The 'Max Talk Duration' is set to 120 seconds for both, with a note '(20-600 seconds)'. A 'Save' button is located at the bottom of the configuration area. The version number 'Version: 1.0.0.38 b1e2' is displayed at the very bottom of the page.



4.2.3.5 Time

NTP Enable: Yes means synchronizing the time automatically via DHCP mode.

1. Configure primary NTP Server Address and server port
2. Configure secondary NTP Server Address and server port
3. Configure Time Zone
4. Interval time for synchronizing with server. Default is 60 seconds.

KOON Phone

Network Phone Speed Dialing Security TR069 Config FTP Config Time Language

Status

Config

Sip Config

Security

Maintenance

Logout

Time Settings

Manually Enter The Time / / --- : :
Year/Month/Day---Hour:Minute:Second

NTP Enable Yes No

Primary NTP Server Address

Primary NTP Server Port

Secondary NTP Server Address

Secondary NTP Server Port

Check Interval s

Time Zone ▼

Save

Version: 1.0.0.38 bic2

4.2.3.6 Language

Change the system language in Chinese or English

KOON Phone

Network Phone Speed Dialing Security TR069 Config FTP Config Time Language

Status

Config

Sip Config

Security

Maintenance

Logout

Language

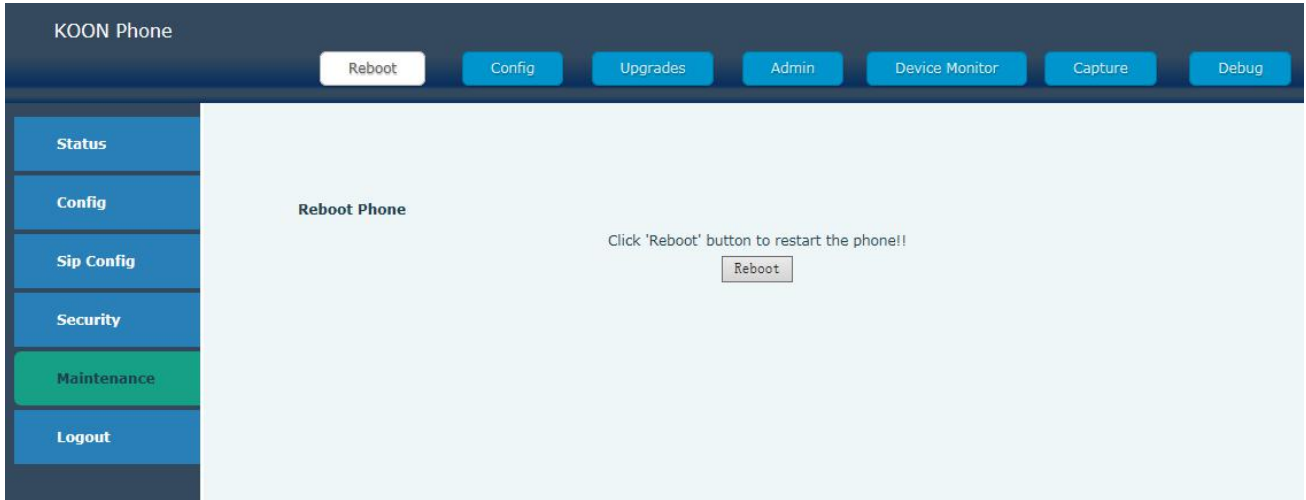
Language Selection ▼

Save



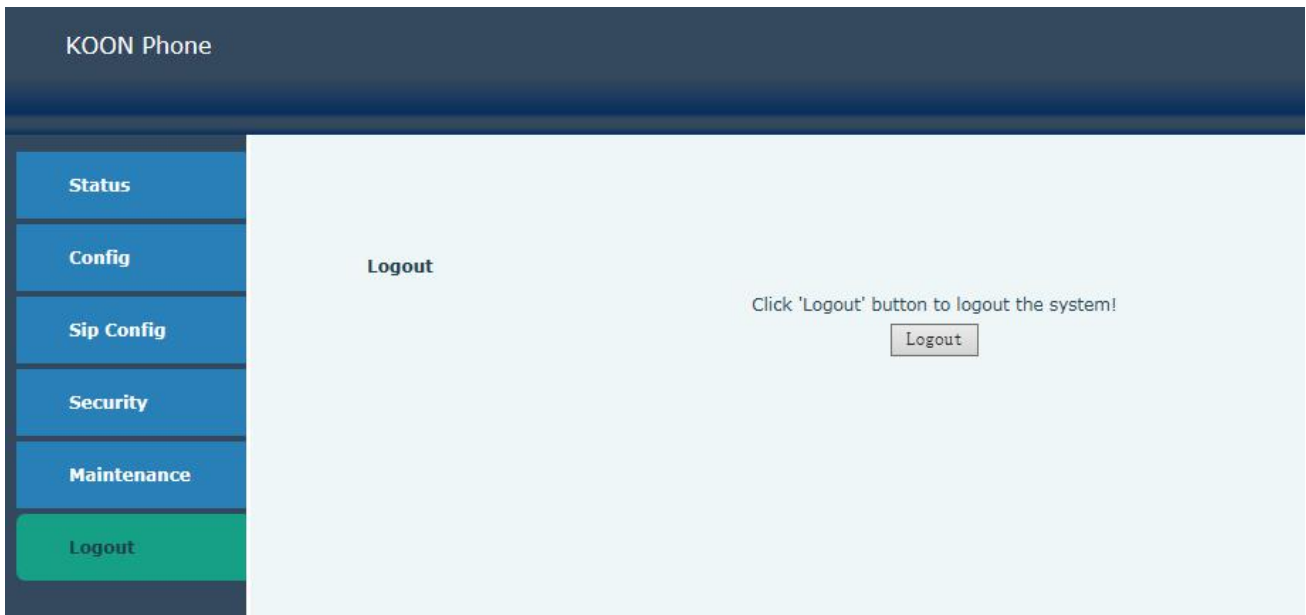
4.2.4 Maintenance

If the configuration finished, click “the reboot” on the phone to restart the phone.



4.2.5 Logout

Click the Log out button to leave the web operation



End!