

User Manual IPPH 203

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1.0 Product Description

Product Dimensions: 18 x 23 x 6 cm (L x W x H)

Product Weight: 1.0 kg (includes power adapter, excludes packaging)

Product Color: Available in Black and White

External Casing: Plastic

LAN Ports: 1 and 2 Ports

The IP Phone 203 is an Internet telephone set. It has all the features and functionalities of traditional telephones and more. By converting analog voice for transmission over the Internet, the IP Phone 203 allows users with broadband Internet connection to make calls to and from anywhere in the world.

2.0 Software Features

- DHCP support for LAN or Cable modem
- PPPoE support for ADSL or Cable modem
- Supports SIP, H.323 V4, and MGCP
- Supports IP address dynamic (DHCP) system
- Supports multi-method NAT and anti-virus crossing
- Compliant with ITU-T standard and DTMF form and check
- Supports codecs G.711A/U, G.723.1 (5.3k/6.3k), G.729A/B/AB/GSM610 sound coding and decoding
- Supports dynamic sound check (VAD), compatible noise form (CHK), echo cancellation (AEC)
- Dynamic sound technology with sound quality as good as traditional telephones
- Support PPPOE protocol (when used with ADSL or cable modems)
- Support multi-net construction
- Auto–manual indication
- Keyboard operated language indicator
- Handfree speaker function
- Adjustable handset and speaker volume
- Call forwarding, call waiting, call transfer
- Built-in world clock auto time display
- Has single or dual network ports (10/100 BaseT)
- Support dial code regulation based on E.164
- Store 100 speed dial telephone numbers
- Store 80 un-answered telephone numbers, incoming numbers, and dialed numbers
- Support web browser or FTP remote upgrade
- English language web browser setting

3.0 Hardware Features

- STN crystal LCD screen and background display
- Adjustable screen brightness
- Net-to-phone hardware terminal
- Automatic updating clock display
- One and two network ports
- Consumption: 2.7w (max)
- Power adapter Input: AC 110V or 220V, Output: DC 9V-12V 500mA
- Data memory: 2MB
- Program memory: 2MB Flash memory
- Internet interface: 10/100M Base-T
- Echo decrease: G165 16ms
- Average net volume: 10-12kbit/s
- Voice–delay: = 100ms
- Usage condition: circumstance temperature: 0°C 40°C (32F-104F)
- Humidity: 10-95%
- Air pressure: 86-106 Kpa

4.0 Operating Environments

- Operation temperature: 0 to 50°C (32F to 122F)
- Storage temperature: -30 to 65°C (-22F to 149F)
- Humidity: 10 to 90% no dew

5.0 Functional Features

1. 100 number telephone book
2. Speed dial function
3. Emulate telephone dialing
4. Call transfer and call hold button
5. Easy volume adjustment
6. IP-to-IP and point-to-point communication
7. HiFi low delay net sound communication
8. Local IP number, local number check
9. Dialed, received, not received number check
10. Instant plug and play
11. IP Phone 203 supply extra –exchanger function
12. H.323, SIP, MGCP three protocol compatible
13. MIPP Tool software setting

6.0 Installation

- 0) Insert power adapter into back of the phone and connect to power source.
- 1) Connect Internet cable from back of phone to broadband modem, router, hub, or switch.

7.0 Functions key

1. Press “#” key to confirm or #
2. Press “Volume +” or “Volume –” to scroll selection back and forth
3. Press “Setting” key to go into setting mode; also to switch from lowercase to uppercase letters
4. Press “Redial” key to go back to previous menu
5. Press “IP/Phone number key” for phone’s IP address and phone number
6. Power light: “on” means power is on, “off” means no power, “flashing” light means data is exchanging between phone and network
7. State light: “off” means everything is fine while “flashing” means:
 - a. Telephone can not register with VoIP gatekeeper
 - b. Telephone can not communicate with VoIP gatekeeper via Internet
 - c. Telephone is in “settings” mode

8.0 OPERATING PROCEDURES

8.1 Dialing or Making Calls

There are four dialing modes:

Ordinary dialing mode

1. Pick the up handset or press the “Hand Free” button (speaker phone) button.
2. Dial the destination phone number you want to call. To cancel call, hang up or press “Hand Free” button.

IP to IP calling within your private network

1. In the protocol settings, uncheck “use service” field and keep the “service address” and “service id” fields empty. In the phone settings, uncheck “use digitmap” field.
2. Dial the IP address by using number keypads (use the “*” button to enter the period character in the IP address) and press # to start calling.

“Point-to-point” dialing mode

1. Using the keypad, dial the destination phone number you want to call then press the “#” button and the phone will automatically dial out.
2. To cancel call, hang up or press “Hand Free” button.

Telephone auto dialing mode

1. Press “Phone Book” button. Takes you to “View” menu
2. Look for phone number to call by pressing “Vol +” key and then select desired number by pressing “#” button. The phone will automatically dial out.
3. To cancel call, hang up or press “Hand Free” button.

Speed dialing mode

1. Select from up to 100 stored numbers.
Press the stored number (“0 to 99”) that corresponds to the phone number you want to dial and press “#” button (handset down). The phone will automatically dial the number.
2. To cancel call, hang up or press “HAND FREE” button.

8.2 Receiving Calls

When phone rings from incoming calls and to receive the incoming calls, pick up the receiver or press the “HAND FREE” (speakerphone) button. After picking up the call, to switch from HAND FREE mode to receiver mode, just pick up the receiver and begin talking; the speakerphone will be deactivated. To switch from receiver mode to HAND FREE mode, press down the “HAND FREE” button while placing the receiver back to resting location. Now the speakerphone is activated and you may continue speaking without receiver.

8.3 Digital Telephone Book

There are two main functions:

1. View: to view stored numbers and perform automatic dialing
2. Modify: to add new numbers into phone memory or modify / delete stored numbers:
 1. In "Phone Book" mode, press "Vol -" to choose "Modify", then press "#" button
 2. Press "Vol +" to the number you wish to modify, press "#" and begin modification
 3. While in modify mode, press "Vol +" to move to the next numbered listing
 4. Choose the numbered listing you want to modify or to make a new entry. Press "#" to begin input. The cursor will start flashing. Enter the person's name in the first line. Press "Setting" to change to capital letters or small letters, "Back Space" to delete characters, "0" for spacebar, and press the numbered buttons to enter numbers/characters.
 5. Next press the "Vol+" to move to the second line. Enter the phone number there
 6. Press "#" to confirm your changes
 7. Press "Redial" button to go back to main menu. Choose "Save settings" and press "#" to save changes into phone memory.

You can save up to 100 phone numbers into the IP Phone 203 memory.

9.0 PROGRAMMING THE IP PHONE 203

9.1 Programming Using Keypad and Web Browser

There are 8 major sets of data related to the programming of the IP Phone 203: IpType, Ip, Subnetmask, Router, Dns0, Dns1, Accounts, and Password.

The IP Phone 203 needs to be assigned an IP address in order for it to access the Internet and make telephone calls. There are 4 kinds of IP address types (IpType):

- IpType 0 (Static) : IP address is manually entered by you
 - IpType 1 (DHCP): IP address is dynamically assigned by router, if any, at the location
 - IpType 2 (PPPoE): IP address assigned by PPPOE dial mode
 - IpType 3 (Modem): IP address assigned by modem mode
1. For IpType 0 (Static) programming, there are 5 fields to #:
 - Default IP Address: 192.168.0.88
 - Default Subnetmask: 255.255.255.0
 - Default Router: 192.168.0.1
 - Default Dns0 (DNS using): 0.0.0.0
 - Default Dns1 (DNS spare): 0.0.0.0
 - 2) For IpType 1 (DHCP), the router, if any, at the location assigns an IP address dynamically to the IP Phone 203, thereby allowing it to access the Internet and make calls. Plug the IP Phone 203 into the router using the LAN port connection. The IP address is assigned to the IP Phone 203 automatically.
 - 3) For IpType 2 (PPPoE), there are two fields that you need to #:
 - Account Name
 - Account Password
 - 4) For IpType 3 (Modem), there are two fields that you need to #:
 - Account Name
 - Account Password

9.2 Default Configuration

1. Default Manager (Administrator) Password: "888888"
2. Timezone: Choose your location
3. Call Service Type:
 - 0 (Disable): For IP point-to-point communication
 - (Enable): Open Service: Voice over IP account number and password (provided by VoIP service provider) usually required
4. User Account: Assign your own user name
5. User Password: Assign your own password

9.3 Programming IPPH 203 Using Keypad

Keypad Button	Function(s)
0	To input: "@", "-", or "&" character
1	To input: "." or "," or "!" or "_" character
2	To input: "["
3	To input: "]"
4	To input: "*"
6	To input: "#"
#	Use as "ENTER" button
Redial	Go back to main menu
Setting	Enter programming mode, also use to switch from lower to upper case letters and vice versa while in config mode
Vol +	Scroll to next menu/submenu selection
Vol	Scroll to previous menu/submenu selection

- 1 Press "Setting" to enter programming mode. (To exit programming mode, press "Setting" button again)
- 2 When the LCD screen displays "Input Password", enter your desired password. Press "#". Two types of password:
 - User password: can only use simple functions of telephone ("8888")
 - Administrator password (superpassword): can set all parameters for the phone ("888888")

Example of Setup:

While in programming mode then press "Vol +" to choose "Set Network settings". Press "#" button to select sub-menu. Then:

1. Press "#"(The LCD display : IP Type "+ -") to choose "IpType ", press " Vol +" to select IPType.
2. Press "#" button to confirm modification.
3. Once programming is complete, press the "Redial" button, which brings you back to the main setup menu. Choose "Save settings" and press "#" to save entire configuration.

10.0 Set Audio

There are 4 audio configurations:

1. Ring Type: There are 13 ring tones available. Press “Vol +” to select
2. Volume in: Handset volume from 0-15
3. Volume out: Receiver volume from 0-31
4. Speaker out: HAND FREE volume from 0-31

11.0 Set Dialing

There are 5 dialing methods:

1. Fwd Always: Forward all incoming calls
 - 0 (Disable): Choose “0” to deactivate this feature
 - 1 (Enable): Choose “1” to activate this feature
 2. Fwd Busy: When your line is busy, incoming calls can be forwarded to another phone number.
 - 0 (Disable): Choose “0” to deactivate this feature
 - 1 (Enable): Choose “1” to activate this feature
 3. Fwd No Answer: When your line does not pickup, incoming calls can be forwarded to another phone number.
 - 0 (Disable): Choose “0” to deactivate this feature
 - 1 (Enable): Choose “1” to activate this feature
 - 5) Fwd Power Off: When your IP phone 203 is power off, incoming calls can be forwarded to another phone number.
 - 0 (Disable): Choose “0” to deactivate this feature
 - 1 (Enable): Choose “1” to activate this feature
- The telephone number you are forwarding to can be up to 16 digits.