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About This Guide

Thank you for your purchase of our products ——S198G. You make an excellent choice; we hope you will fully enjoy all the features of the product. The functions of the router are as following:

- GSM/GPRS/EDGE 850/900/1800/1900 MHz
- RJ-11 socket for easy interface with any kinds of terminal impedance (suitable for all types of EPABX and PCO machines)
- DTMF Caller ID and error message display
- Speaker and Microphone volume adjustable
- Call diversion / call waiting
- Send DTMF tone signals
- Outgoing call duration limitation
- Call back function

This guide provides everything you need to quickly use your new device.

Safety Instructions

To care for your product, please keep it away from:



Liquids of any kind

Don't expose your product to water, rain, extreme humidity, sweat, or other moisture.



Dust and dirt

Don't expose your product to dust, dirt, sand, food, or other inappropriate materials.



Extreme heat or cold

Avoid temperatures below -10°C/14°F or above 45°C/113°F.



Cleaning solutions

To clean your product, use only a dry soft cloth.

Don't use alcohol or other cleaning solutions.



Microwaves

Don't try to dry your product in a microwave oven.



The ground

Don't drop your product.





Getting Started

This chapter provides basic installation instructions and information for obtaining the best performance with the S198G.

This chapter contains:

- [Parts List](#)
- [Assembling S198G.](#)
- [Features of S198G.](#)

Parts List

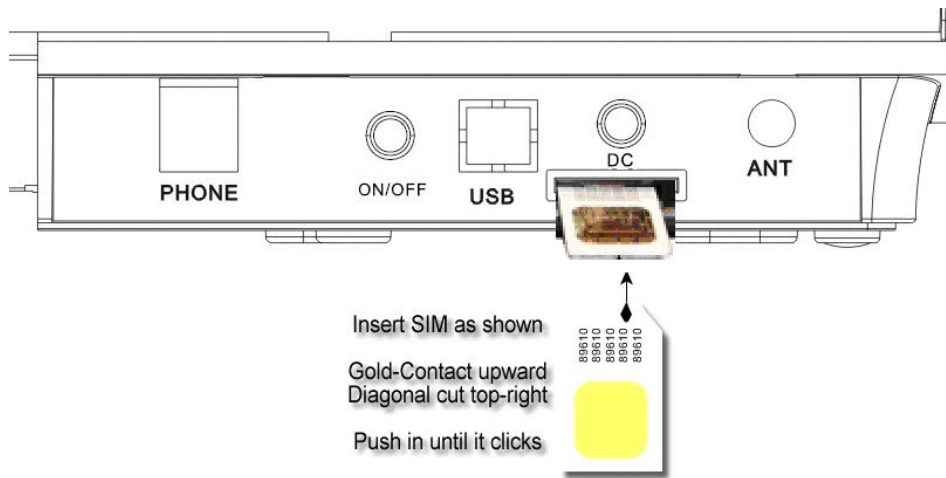
Picture	Description
	GSM Gateway Main Unit
	Power supply(output DC 7.5V)
	Antenna
	Coil Line

Assembling S198G

This section describes how to assemble S198G.

First, Insert the SIM Card

Please insert SIM card into SIM Card Slot. Make sure the card is compatible with the GSM network supported by the router.



Caution: Do not pluck or insert SIM Card while the router is power on.

Second, Connecting the Telephone

Third, Connecting the Antenna

Last, Connecting Power Source and turn on the device.

Caution: Power supply should be compatible with S198G. Otherwise, the device may be damaged.

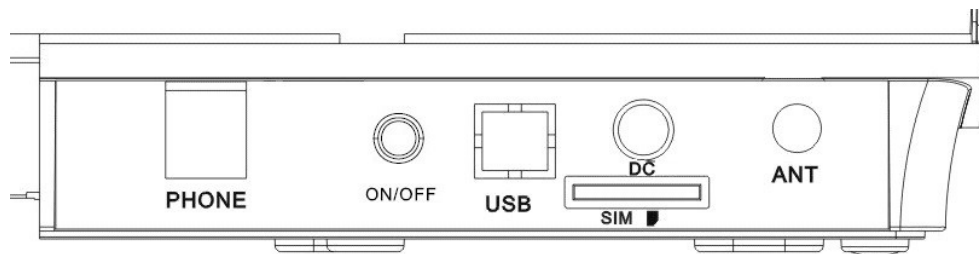
Please follow these steps, and do not reverse sequence.

Features of S198G

This section explains the features of S198G. Two topics include:

- [Interface Description](#)
- [LED Indication](#)
- [Error Code](#)

Interface Description



PHONE: Connect a Caller ID Telephone instrument or PBX to this connection.

ON/OFF: Turn on/off the device

USB: Connect wire for downloading software.

DC: Connect the power adapter output to this connection.

SIM: Insert SIM card inside.

ANT: Connect the antenna to this connection.

LED Indications



From left to right are **LED1, LED2 and LED3.**

All LED has three colors: RED, YELLOW, and GREEN:

The signals of LEDS are as following:

LED	Description
All LEDs glow and roll	This means that the S198G is initializing the software and login the network
All LED no light	No power.
All LED Yellow flashing	Initialization error. SLIC ERROR
LED1 Red	Power on
LED2 Red	No SIM card
LED2 Yellow	PIN lock , Need input PIN code
LED2 Green	Off hook status
LED2 Green Flashing	Standby Mode
LED2 Yellow Flashing	Network Lock, cannot find network
LED2 Green and Red flashing by turns	PUK lock , Need input PUK code
LED2 Yellow (calling)	Callwaiting connected
LED2 green red flash(ring)	ringing
LED2 RED (calling)	dailing
LED2 red flashing(calling)	busytone
LED2 GREEN (calling)	conneted
LED3 No Light	No SIM card , or need input PIN/PUK code
LED3 Red	Signal weak or no signal
LED3 Yellow	Signal middle
LED3 Green	Signal Strong

Error Code

While S198G is connected to a phone the following error codes will be displayed on phone LCD:

Code	Explanation	Solving Method
100001	Cannot check SIM	Please check whether SIM card is inserted properly or not.
100002	PIN code request is activated	Please feed the correct PIN code (in most of the cases the default PIN is 1234 until it has been changed). The SIM will be locked after feeding incorrect PIN for 3 times.
100003	PUK code request is activated	Please feed the correct PUK number to unlock the SIM. PUK number can be obtained from the GSM service provider.
100007	Failed to initialize.	Switch off the S198G and restart. Pull out the plug and wait for 5 seconds then plug in again

Cautions: When you pull out the power plug and want to restart, please wait for few seconds (more than 5) before plug in again.

The Basic Configuration of S198G

Setting mode introduces:

1. Only in setting mode can program the S198G.
2. Enter to setting mode way: pick up the phone input code `*#`, then enter to setting mode. In this mode, you only can program the S198G, can't make a call.
3. To exit setting mode: hang up the phone.
4. While program is succeed, you can hear 2 beep tone after setting.

S198G operate way: pick up the phone → standby mode → `*#` → Input program code → Hear 2 Beeps → hang up

For example: While you prefer set `*# 06#`. First pick up the phone, input `*# 06#` then hear Beep. If hear 2 beeps ,then means setting succeed, and hear long beeping , then setting failed.

Configure Your S198G

If a DTMF telephone is connected to the S198G, the following features can be configure:

Change Speaker Volume

Stand by status, you can increase or decrease the reception speaker level.

Program code: **`*#62*X#`**

X: 1~ 9,(Minimum Volume is 1, and Maximum is 9)

Off-hook status, key in `*#62*8#` after hear 2 beep then hang up , now speaker volume is 8.

Change Default Microphone Volume

Stand by status, You can increase or decrease the microphone level

Program code: **`*#61*X#`**

X: 1~9 (Minimum Volume is 1, and Maximum is 9)

Stand by status, key in `*#61*6#` after hear 2 beep then hang up , now microphone volume is 6.

Call Diversion

You can divert incoming calls to another phone number when you are unable to answer.

The following table shows the divert alternatives as well as the way to proceed to manage this function.

Diversion of calls...	With Function...	Program Code	You will hear...
Always	Activate	*#63*1*Phone number#	2 beep
	Deactivate	*#63*0#	2 beep
When busy	Activate	*#66*1*Phone number#	2 beep
	Deactivate	*#66*0#	2 beep
When no answer	Activate	*#65*1*Phone number#	2 beep
	Deactivate	*#65*0#	2 beep
When out of reach (power off)	Activate	*#64*1*Phone number#	2 beep
	Deactivate	*#64*0#	2 beep

Note:

1. This function depending on your network operator. If these do not work, please consult your network operator.
2. If instead of hearing beeps you can hear a busy tone, this means that there has been an error in the activation or the deactivation.

Call Waiting Service

If you wish to be able to receive a second call while another call is in progress, you must turn on the call waiting service.

Call waiting Function	Program Code	You will hear...
Activate	*#67*1#	2 beep
Deactivate	*#67*0#	2 beep
Check status	*#67*2#	2 beep

Note:

1. This function depending on your network operator. If these do not work, please consult your network operator.
2. If instead of hearing beeps you can hear a busy tone, this means that there has been an error in the activation or the deactivation.

Receiving a Second Call

You can put one call on hold then receive a second call.

Program Code	Function
#*0#	Hang up the waiting call
#*1#	Hang up current calling and pick up the waiting call
#*2#	Put current call on hold , then pick up the waiting call or dial a new phone number
#*3#	Make the two calls into a conference call (S198G should already connected two calls)

Note: If "divert when busy" is on, the waiting call is diverted to the number you have specified.

Conference Calls

You can have a joint conversation with two other participants.

Program code: **#*3#** (Processing during a call)

If you are in conversation with participant 1, put it on hold (press **#*2#**), and dial participant 2.

To join the two calls into a conference call: press **#*3#**. Now you have a conference group of three participants (participant1, participant2 and yourself).

Restore Default Setting

This command can be used to delete all the programmable settings and restore default factory settings.

Program code: **##0000#**

Key in ***#0000#** via caller ID phone and after hear 2 beep tone then hang up.

Note: When you start to reset, don't do any operation before hear a ring tone. If reset process is interrupted, please do it again until succeed.

Check Software Version

Program code: ***#08#**

Key in ***#08#** via caller ID phone and after hear 2 beep tone then hang up, S198G software version number will display on phone LCD.

Check IMEI

Program code: ***#06#**

Key in ***#06#** via caller ID phone and after hear 1 beep tone then hang up, S198G IMEI will display on phone LCD. (Note: The telephone must support 16 digits DTMF display)