

S190TG Series User Manual (TG / TGS / TGH)



FUNC TYPE	GSM	FSTN	GPRS
S190TG	√		
S190TGS	√	√	
S190TGH	√	√	√

Thank you for buying our products.

To reduce the risk of fire, electric shock and/or personal injury, please read this manual before using this unit.

This manual

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1 Before Getting Started

Copyright notice

VOGTEC shall not be liable for any direct, indirect, consequential or incidental damages about the use of this equipment, manual or any related materials. The information in this technical manual is advisory in nature and is subject to change. VOGTEC may make improvements and changes in the products described in this manual without notice. Changes will be periodically made to the information in the new editions. Efforts have been made to ensure that the contents of this manual are correct. Should you find any error, VOGTEC welcomes your comments to improve our communications. Please contact VOGTEC on www.vogtec.com

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This document has been prepared for the use of employees and customers of Vogtec co., Ltd and may not be reproduced without prior written approval of vogtec co.,Ltd.

Use and care

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.

Introduction

This manual is designed to familiarize you with your GSM-PSTN Router S190TGH. To get maximum benefit from this product, we suggest that you read the instruction manual carefully. You are advised to keep the manual safely for reference in future.

You will find that the GSM Router is the most economical way to route your STD / Mobile / Long distance calls through the GSM mobile network or the normal PSTN telephone line, reducing your communication cost. We are sure you will be satisfied with its performance.

2 Parts Checking List

GSM Router	1
Adaptor (outputDC12V)	1
Antenna	1
User's Manual	1

3 Features and SPEC

Main features

1. Auto Call routing between PSTN line and GSM line, Least cost Routing

function.

2. Call forwarding between PSTN line and GSM line.
3. Remote programming
4. GSM line supporting area code or IP number dialing
5. Four band 850/900/1800/1900 MHz auto compatible.
6. 12V DC operated (can be connected to a 7.5V truck battery).
7. 48V line voltage (suitable for all types of EPABX and PCO machines).
8. RJ-11 socket for easy interface with any kind of EPABX system.
9. FSK or DTMF Caller ID.
10. DC jack provided for connecting external battery.
11. GPRS network function.
12. Long-distance monitor function
13. PSTN line error alarm remind
14. Outgoing calls limit
15. Auto Call routing between PSTN line and GSM line, Least cost Routing function.
16. Call forwarding between PSTN line and GSM line.
17. Remote programming
18. GSM line supporting area code or IP number dialing
19. Four band 850/900/1800/1900 MHz auto compatible.
20. 12V DC operated (can be connected to a 7.5V truck battery).
21. 48V line voltage (suitable for all types of EPABX and PCO machines).
22. RJ-11 socket for easy interface with any kind of EPABX system.
23. FSK or DTMF Caller ID.
24. DC jack provided for connecting external battery.
25. GPRS network function.

26. Long-distance monitor function
27. PSTN line error alarm remind
28. Outgoing calls limit
29. Easy update with the update port
30. Phone lock/ SIM card lock/ Network lock/ Cell lock

Physical & Environmental

Desktop

Power Input: 220 to 230 ACV / 50/60Hz 12V DCV 1000mA

Dimensions: x xmm

Weight: ?g (main unit)

Ambience temperature: -10°C ~ +45°C

Relative humidity: 10% ~ 95%

Air pressure: 86 ~ 106Kpa

4. Set up and Installation

Inserting a SIM Card into the FCT

You may prepare your SIM card in a GSM phone prior to inserting it into the FCT. Ensure that the SIM card PIN facility is disabled.

If the SIM Card is working with the phone, it is ready for use in the GSM FCT.

If FCT can not login, error code will display on telephone LCD, and please refer to error code list at end of this manual

If the SIM has been locked, FCT will report 000002 error codes at the LCD of phone. Then pick up the handle and input the pin code, if the pin is correct, it will make a “Bee” tone and then register the SIM. If the pin is error, it will make a “Di-Di-Di” tone and need input the pin again.

If you wish to protect the SIM card inserted in the FCT, please refer to the GSM features at the appendix.

Interface Description



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

DC12V: Connect the power adapter output to this connection.

LINE/PGM: Connect the PSTN line to this connection if required; and this port is the software update port.

ANT: Connect the antenna to this connection.

DATA: RS 232 interface (9 pin) for data connection.

LED/LCD Indications

Insert the SIM card in the SIM card holder provided at the bottom of the router, connect the power supply, connect the antenna and then switch on the FCT. The LEDs will glow.

The signals of LEDs are as following:

All LEDs glow and roll and then flash	This means that the FCT is initializing the software and login the network
Some signal LEDs glowing and the signal LED glowing	This means that the FCT is working. The number of signal LEDs glowing indicates the signal strength.
Network LED flashing	This means the FCT is at standby mode
Network LED glowing	This means that the FCT is in using and the number is being dialed.
GSM LED glowing	This means that the GSM line is in using.
PSTN LED glowing	This means that the PSTN line is in using.
1-7 LEDs glow	This means that the initialization has failed and the number of LEDs glowing stands for the code of error. In this case the error code will be sent to the

<p>telephone instrument connected to the FCT in form of digital code.</p>

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

Code	Explanation	Solving method
1	Cannot check SIM Display: 000001	Please check whether SIM card is inserted properly or not.
2	PIN code request is activated Display: 000002	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.
3	SIM is locked Display: 000003	Please feed the correct PUK number to unlock the SIM. PUK number can be obtained from the GSM service provider.
4	Incorrect SIM or can not register in specified network Display: 000004	Please check the SIM and contact the GSM service provider. Please insert the SIM in any normal mobile

		phone and check whether it works there.
5	Failed to initialize. Caller ID: 000006	Switch off the FCT and restart.
6	The FCT is locked display 000008	Please insert the correct SIM card to use or unlock the FCT
7	The network is locked display 000009	Please insert the correct network SIM card to use or unlock the FCT
8	The cell is locked display 000010	Please use the FCT in correct cell or unlock the FCT

NOTE: If the FCT continues to mal-function contact our customer care centre to get on-line help.

5 Setting and Program Operatjion

Setting mode introduces:

1. Only get in the setting mode can program the FCT.
2. The get in the setting mode way: pick up the phone of the FCT and then input code "***#", then can hear "Bee". This is in setting mode. And in this mode, you can only program the FCT, can't make a call.

3. The exit setting mode way is: hang up.
4. In the setting mode, one signal LED (the lowest signal LED) grows. To notice the user he is in setting mode.
In setting mode input the others program code to program FCT, it will have another one signal LED grow. To notice the user he is in the program mode.
5. In program mode, if the program code is correct it will make “Bee” tone, if error it make “Di-Di-Di”.
6. in program mode. After input a program code, if you want to continue do program without exit to the standby mode. Then press “*#” can exit the program mode to setting mode.

FCT phone operate: “program mode”->*#>setting mode->*#>standby mode”

Note: if user use remote set and program. The remote operate is:

program mode”->#>setting mode->*#>standby mode->*#>FCT hang up*

For example: pick up the handle input **# **34#0000#. You can hear **# (“Bee”) **34#(“bee”) 0000# (“bee”).

Restore Default Setting

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

Program code: **00#

Control Caller ID Display

Display FSK caller ID (Default): **14#1#

Display DTMF caller ID: **14#2#

Deactivate Incoming Caller ID: **14#0#

Default is DTMF caller ID display

NOTE:

*If set **14#0# when the GSM number of FCT has an incoming call, it will not display the caller ID. But if the PSTN number of the FCT has an incoming call, it will display the caller ID.*

Hardware check

Check IMEI Number

Program code: **06#

Key in ***06# via caller ID phone and then hang up, FCT IMEI number will display on phone LCD.

Example: 5260663, it is the IMEI number.

Check the version of software

Program code: **01#

Key in ***01# via caller ID phone and then hang up, FCT software version number will display on phone LCD.

GSM Dialing Set (Convert Prefix number)

This Function can be used to convert the prefix numbers. Max is 50 sets for GSM line only.

In this operation the first few digits can be replaced by other digits as desired. e.g. while dialing 9522-27563637 it can be converted to 022-27563637.

Program code : ** 2 2 #NUMBER*REPLACE TO#

NUMBER: This is the prefix number which is to be replaced by another number; this can be up to 8 digits.

REPLACE TO: This is the number which is to be dialed by replacing the initial digits of the dialed number; this can be up to 8 digits.

When you enter this digit as 0 then the prefix number will be deleted.

Example:

To convert the prefix number from 9522 to 022 : ** 2 2 # 9 5 2 2 * 0 2 2 #

To delete the stored prefix number like : 9522 : ** 2 2 # 9 5 2 2 * #

To clear all prefix number: ** 2 2 # #

Default: No Prefix Conversion

PSTN Select and Route

Set PSTN Router Mode

This function works only when the PSTN line is connected to the GSM FCT.

Command : ****31#PSTN Routing Mode#**

PSTN Routing Mode: 2 models can be entered.

1) PSTN->#->GSM when dialed out by the phone that is connected to the S190TGH the call will use the PSTN network; If # is pressed at the start of the telephone number the call will use the GSM network.

Program code is: ****31 # 12 #**

For example: Dial 2345678 the outgoing is by PSTN net

Dial #2345678 the outgoing is by GSM net

2) GSM->#->PSTN: When dialed out by the phone connected to the S190TGH the call will use the GSM network. If # is pressed at the start of telephone number the call will use the PSTN network.

Program code is: ****31 # 52 #**

For example: Dial 2345678 the outgoing is by GSM net

Dial #2345678 the outgoing is by PSTN net

Router list: Connection is via PSTN but the FCT will make connection as per router list automatically.

Notice: If you press # at the end of the number the FCT will dial out immediately. If you do not press # at the end of the number the FCT will dial out after 3 seconds.

3) Auto PSTN Router: In this mode if the start of the number dialed is the same as one of the numbers in the router list, the FCT will dial out by PSTN no need # at the start of the number.

If the start of the number dialed out is not the same as a number in the list, it will dial out by the GSM network

To set the router list see the next item.

Program code is: **31#99#

For example:

Step1: **31#99#

Step2: **32# 89#

Step3: in standby mode dial out 8977777

Step4: this number is dialed out using the PSTN network

Step5: in standby mode dial out 9877777

Step6: this number is dialed out using the GSM network

Default: GSM->#->PSTN model: Router function is disabled and the router list is empty.

Program code : **32# PSTN ROUTING NUMBER #

PSTN ROUTING NUMBER: Length of numbers can be up to 7digits. Each set of numbers should be entered separately.

E.g. – all number starting with 2 will be considered as a separate set and all numbers starting with 3 separate set.

Example:

Delete all preset number in router list : ** 3 2 # #

Add group number starting as 23 : ** 3 2 # 2 3 #

Delete group number starting as 13 : ** 3 2 # 1 3 *#

Default: No number is entered in the list.

NOTE: Here the group number means all the numbers starting with the digits as entered (e.g - 23).

Call Forward from PSTN to GSM

When FCT receives a PSTN call it is forwarded it to the preset GSM number or manually input number via the GSM network.

1) Set ringing amount before call forwarding

Program code : **33# RINGTIMES #

RINGTIMES: Can be set from 0 to 9, indicating the number of rings before the call

is forwarded to the preset mobile number. 0 means that call forwarding features have been cancelled. This setting will be retained in the FCT's memory even after rebooting.

Default: 3

NOTE: above setting will affect call-forwarding process from PSTN to GSM.

2)Forwarding password.

FCT will verify password while manually dialing forwarding number.

The password program code is **37#old password* new password#

Default password: 1234

3)Set forwarding GSM number

Program code: **34# FORWARDING NUMBER #

FORWARDING NUMBER: 3-32 digits

Set the mobile number for call forwarding. The FCT will hold for 3.6 seconds then dial the following number automatically.

Program command: **34# 0000 #

When set as 0000, it means the forwarding number should be input by PSTN caller manually.

Default: Disabled

Example:

Auto forward:

**33#0# On receiving an incoming PSTN call it will be forwarded immediately.

**33#3# On receiving an incoming PSTN call it will be forwarded after 3 rings.

**34#56781234# Set the auto forward number

Operation On receiving an incoming PSTN call it will be forwarded after the programmed number of rings to 56781234. When the call is accepted the FCT will connect the PSTN line to GSM line.

During the forwarding call, press “*#” can disconnect the forwarding call, and turn to the manual forward mode.

Manual forward:

**33#0# On receiving an incoming PSTN call it will be forwarded immediately.

**33#3# On receiving an incoming PSTN call it will be forwarded after 3 rings.

**33#0000# Set the manual forward mode

Operation On receiving an incoming PSTN call it will be forwarded after the programmed number of rings.

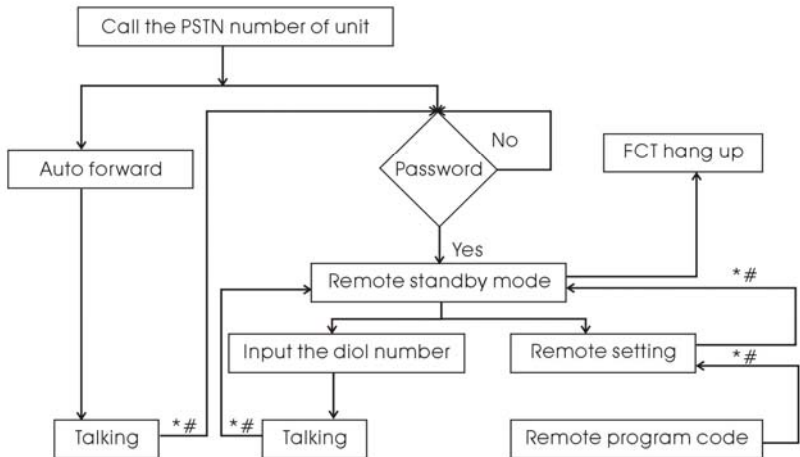
The FCT will then send a “high tone (‘Du’)”. Enter the password (dial the password one by one at about 0.5 second intervals) and press # to validate.

If the password is correct you can here a “middle tone (‘Du’)” and it get in the remote standby mode will hear a tone.

At the remote standby mode you can dial the forwarding number you want, and press # at the end of number to forward the call using the GSM network or do the remote setting and program the FCT.

During the forwarding call, press “*#” can disconnect forwarding call and return to the remote standby mode, then you can make another call or do setting the FCT.

The picture flow:



Program code: **34# #

This command disables call forward from PSTN to GSM

Call Forward from GSM to PSTN

Call Forward from GSM to PSTN

On receiving an incoming GSM call it can be accepted and the forwarding number input manually via PSTN.

1) Set ringing amount before call forwarding

Program code : ****35# RINGTIMES#**

RINGTIMES: Can be set from 0 to 9, indicating the number of rings before the call is forwarded to the preset mobile number. 0 means call forwarding features cancelled.

This setting will be retained in the FCT's memory even after rebooting.

Default:3

NOTE: This setting will affect call-forwarding process from GSM to PSTN.

2) Set forwarding PSTN number

Program code: ****36# FORWARDINGNUMBER#**

FORWARDING NUMBER: 3-32 digits

3) Set the mobile number for call forwarding.

The FCT will hold for 3.6S and then dial the following number automatically.

GSM to PSTN manual call forward mode

Program command: ****36# 0000#**

When set as 0000 the forwarding number should be input by GSM caller manually.

Default: Disabled

Example:

Auto forward:

- (1)**35#0# On receiving an incoming GSM call it will be forwarded immediately.
- (2)**35#3# On receiving an incoming GSM call it will be forwarded after 3 rings.
- (3)**36#56781234# Set the auto forward number

Operation On receiving an incoming GSM call it will be forwarded after the programmed number of rings to 56781234.

When the call is accepted the FCT will connect the GSM line to the PSTN line.

During the forwarding call, press “*#” can disconnect the forwarding call, and turn to the manual forward mode.

Manual forward:

- (1)**35#0# On receiving an incoming GSM call it will be forwarded immediately.
- (2)**35#3# On receiving an incoming GSM call it will be forwarded after 3 rings.
- (3)**33#0000# Set the manual forward mode

Operation On receiving an incoming GSM call it will be forwarded after the programmed number of rings.

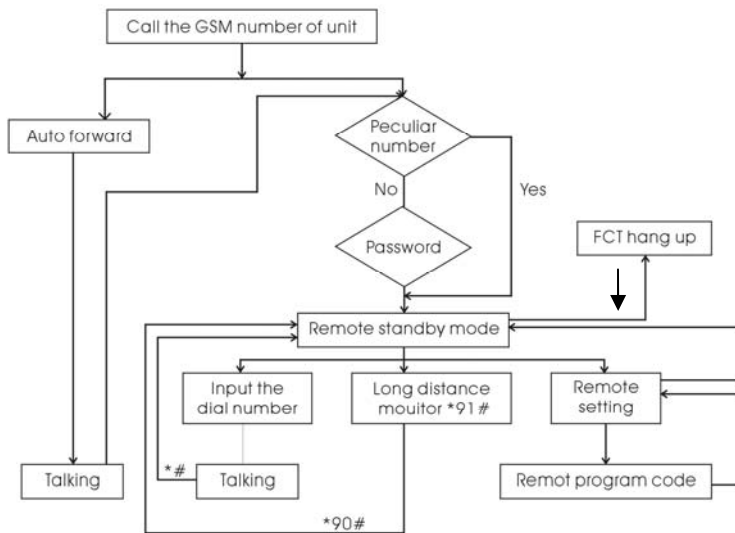
The FCT will then send a “high tone (‘Du’)”. Enter the password (dial the

password one by one at about 0.5 second intervals) and press # to validate. If the password is correct you can here a “middle tone (‘Du’)” and it get in the remote standby mode will hear a tone.

At the remote standby mode you can dial the forwarding number you want, and press # at the end of number to forward the call using the PSTN network or do the remote setting and program the FCT.

During the forwarding call, press “*#” can disconnect forwarding call and return to the remote standby mode, then you can make another call or do setting the FCT.

The picture flow:



Program code: ****36# #**

This command disables all call forwarding from GSM to PSTN

Program code : **38# GSM LIST #

Set the peculiar number.

This function is used in manual mode. If the caller number is the same as the list, you can press the forward number without entering the password.

GSM LIST: 1-16 digits.

Example:

Delete all number in list: **38# #

Add one number to list as 5566743: **38#5566743#

Delete one number in list as 886454:**38#886454*#

Delete all number is: **38##

Default: No number is entered in the list.

Example:

(1)**35#0# On receiving an incoming GSM call it will be forwarded immediately.

(2)**35#3# On receiving an incoming GSM call it will be forwarded after 3 rings.

(3)**36#0000# Set the manual forward mode

(4)**38# 886454#

Operation: Use the telephone of which the number is 886454 to dial the GSM number of S190TGH, after the set number of rings. The FCT will then send a tone.

Dial the number you want to forward the call to then press # to dial out.

Program code: **37 # OLD PASSWORD*NEW PASSWORD#

PASSWORD: 4 digits

Default: 1234

NOTES: Change the password need enter the old password to verify. This setting value will effect call forwarding

GPRS network operation

When used for data communication basic operation of the GSM FCT is the same as when using a PSTN line to connect to the Internet but with some differences in parameters.

For windows2000

Setup the data modem

How to connect Internet with mobile phone

1. Hardware: mobile phone or the Module, SIM card (enabled for GPRS), PC, wire of RS-232 (9 pins)

2. Description of setup software:

(1). PC (with Win2000 operation system) setup the drive of GPRS modem

Open "My Computer\Control Panel\Phone and Modem Options" choose "add" and "Don't detect my modem; I will select it from a list", next choose [Standard Modem

Types] ,[Standard 33600 bps Modem] from Manufacturer. Next selected ports, and finish, then back to the properties page of “My Computer\Control Panel\Phone and Modem Options” choose the “Maximum Port Speed” is 115200. Next choose “Change Default Preferences” and None Flow Control from “Advanced”.

(2) Setup the dial connection

Open “My Computer\Control Panel\Network connections” and choose “Make a new connections”. Next change “Connect with Special Net”. Next input “*99**1#”(in different country and area, this code may different from ISP. Please ask the local ISP for this dial code) in the telephone number place. Then input the name of this connection such as “The connections of GPRS”. After that, back to the “My Computer\Control Panel\Network connections” and choose properties from the Mouse right key menu. Select the modem that has been setup in the port; Open “collocate” chooses Maximum speed is 115200, and deselect “hardware function”. Then out the setting page

Connect Internet by GPRS

Connect the ports of the S190TGH. Ensure the SIM card is enabled for GPRS. Dial *0#, and can hear a “Bee” tone and after 5 second can hear another a “Bee” tone, this time the GPRS of the SIM is enable.

Open the “The connections of GPRS” which you just made and wait. The connection is successful when the ICO appears at the taskbar. If IE has chosen the connections you can connect to the Internet now.

If you want to disconnect “the connections of GPRS” you should choose “disconnect” from the Mouse right key menu of the ICO which is at the right side of the taskbar. Then dial *1# and hang up the telephone.

For windows XP

PC require

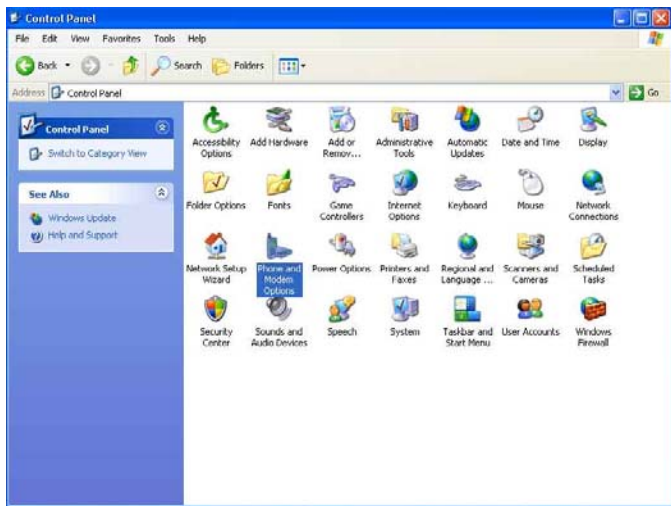
To get GPRS link workable via S162GB, operation system in pc shall be one of Windows 98, XP, 2000, ME or above.

Before installation, PC shall be configured with:

- TCP/IP protocol;
- Dial-up connection

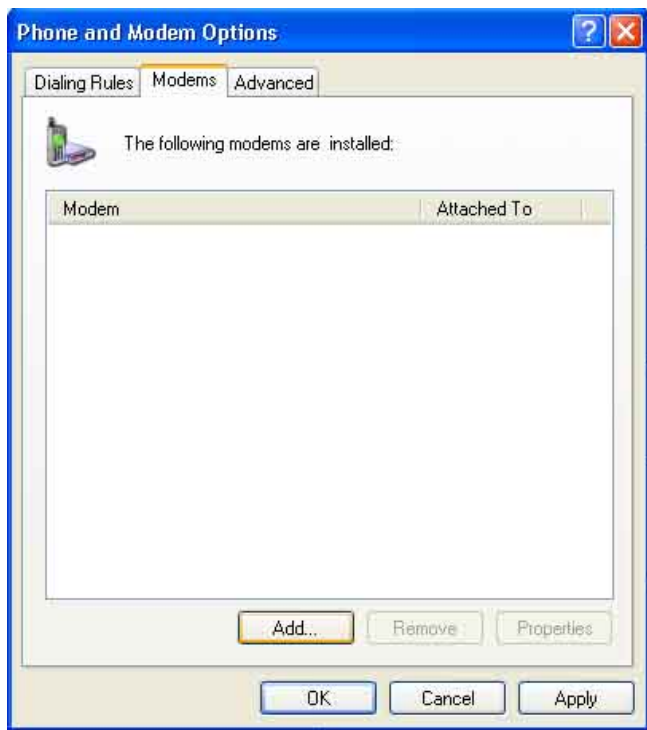
1. Add modern

1) In Control Panel, click and run Phone and Modern Option



1-7

2) Chose Add



1-8

3) 、 chose “ do not detect my modem, I will select from a list”



1-9

4)、 chose “ Standard Modern Types”, and “standard 33600bps modem”

Add Hardware Wizard

Install New Modem



Select the manufacturer and model of your modem. If your modem is not listed, or if you have an installation disk, click Have Disk.

Manufacturer

(Standard Modem Types)

Models

Standard 19200 bps Modem

Standard 28800 bps Modem

Standard 33600 bps Modem

Standard 56000 bps Modem



This driver is digitally signed.

[Tell me why driver signing is important](#)

Have Disk...

< Back

Next >

Cancel

1-10

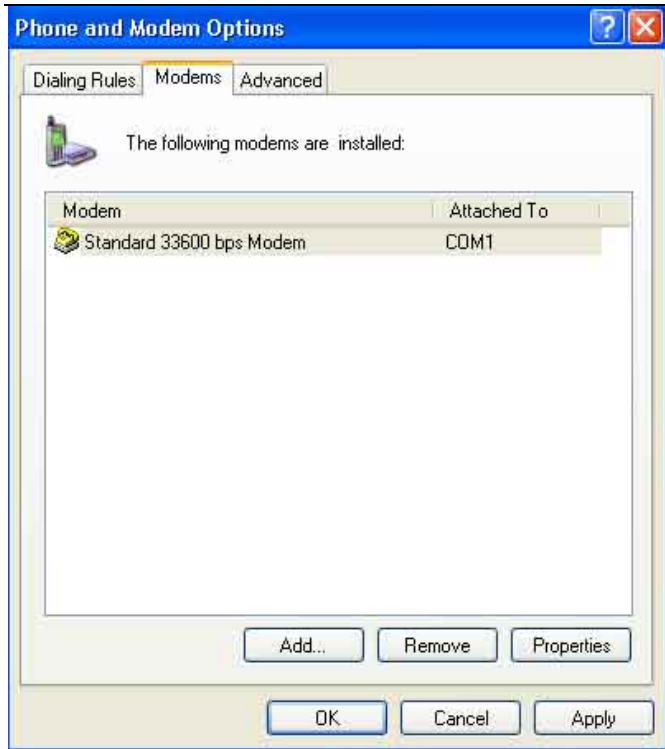
5)、choose port where S162GB connected, like COM3, COM4, or COM5, click Next



1-11

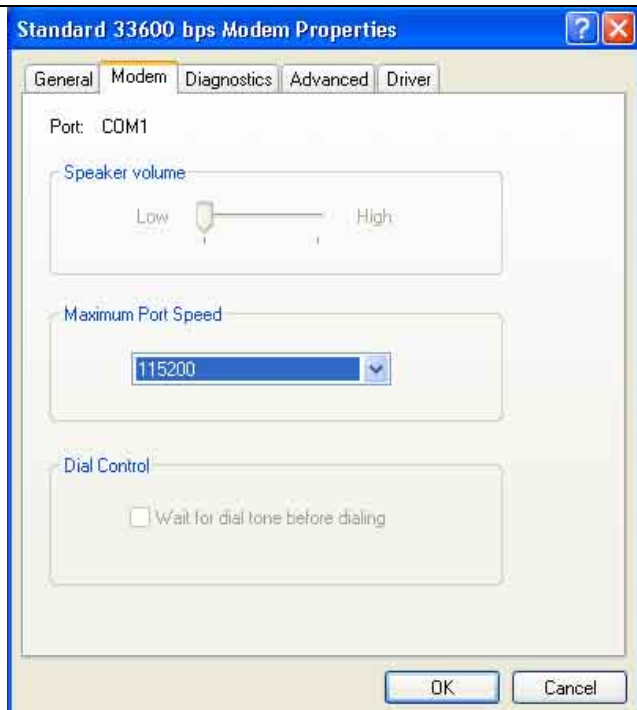
- 6)、click Finish to end
- 7)、open priority of modern,





1-12

8)、chosed "115200" , and confirm



1-13

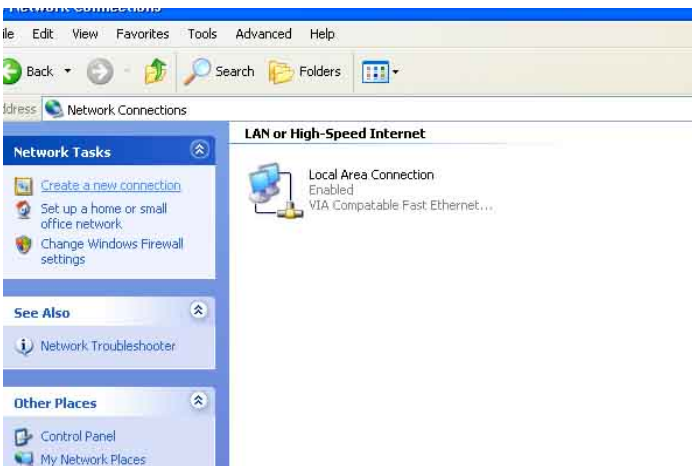
2. Add network connection

1)、in Control Panel, double click "network connections"



1-14

2)、 chose “create a new connection”



1-15

3)、click Next



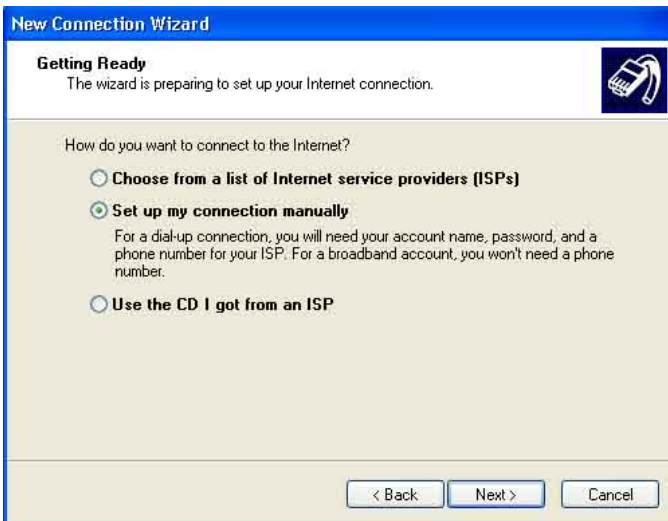
1-16

4)、chose "internet connection" and "Next";



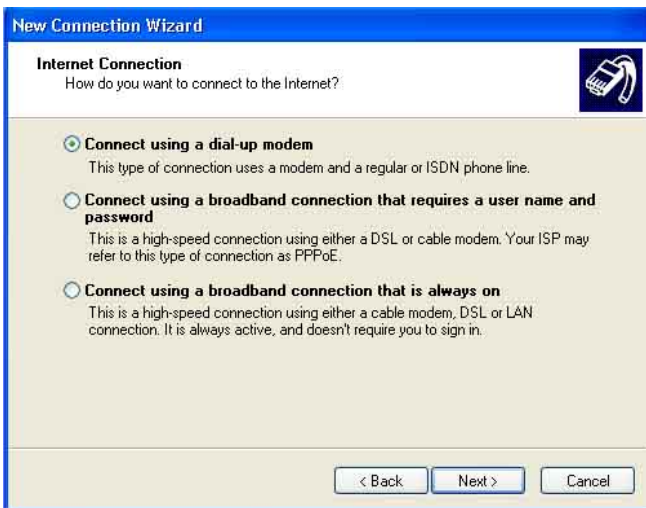
1-17

5)、 chose “manual setting” and “Next” to continue



1-18

6)、 chose “use modern connection”

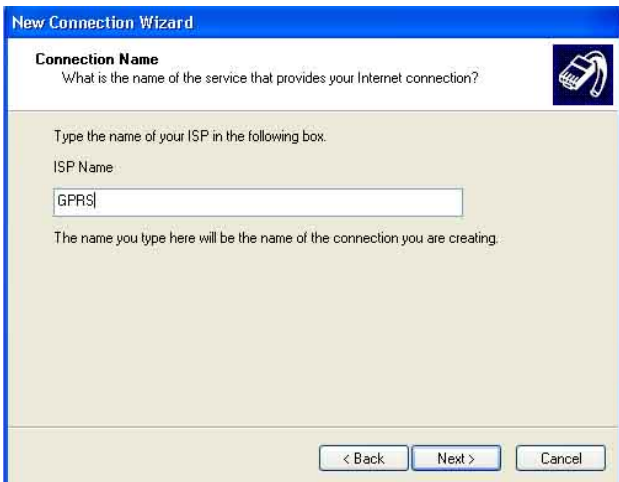


1-19

7)、 click Next

Select the COM port of just made by driver

8)、 click Next .




1-21

9)、input GPRS number as **"*99***1#"**(different country and different area has different code. Please ask this code for ISP), click Next to continue

New Connection Wizard

Phone Number to Dial
What is your ISP's phone number?



Type the phone number below.

Phone number:

You might need to include a "1" or the area code, or both. If you are not sure you need the extra numbers, dial the phone number on your telephone. If you hear a modem sound, the number dialed is correct.

< Back Next > Cancel

1-22

10)、ignore account name and password, click Next to continue

New Connection Wizard

Internet Account Information

You will need an account name and password to sign in to your Internet account.

Type an ISP account name and password, then write down this information and store it in a safe place. (If you have forgotten an existing account name or password, contact your ISP.)

User name:

Password:

Confirm password:

Use this account name and password when anyone connects to the Internet from this computer

Make this the default Internet connection

< Back Next > Cancel

1-23

11)、 click Finish then GPRS connection link will display on desktop

3. Set the properties of dial out net

1)“My Computer\Control Panel\Network connections” and choose properties from the Mouse right key menu. Select the modem that has been setup in the port; Open “collocate” chooses Maximum speed is 115200,and deselect “hardware function”. Then out the setting page.

2) Choose Space time “Never”

3) Server type, choose PPP protocol and choose “login net” “TCP/IP”.

4) Net->Internet protocol(TCP/IP)->properties-> Auto get IP address->Auto get DNS address, and default gateway.

4. Connect Internet by GPRS

- 1).Connect the ports of the S190TGH. Ensure the SIM card is enabled for GPRS.
- 2).Dial *0#, and can hear a “Bee” tone and after 5 second can hear another a “Bee” tone, this time the GPRS of the SIM is enable.
- 3).Open the “The connections of GPRS” which you just made and wait. Not need input the user ID and password, then dial. The connection is successful when the ICO appears at the taskbar. If IE has chosen the connections you can connect to the Internet now.
- 4).If you want to disconnect “the connections of GPRS” you should choose “disconnect” from the Mouse right key menu of the ICO which is at the right side of the taskbar. Then dial *1# and hang up the telephone.

Long-distance monitor function

This function is used at the GSM to PSTN forward remote standby mode. And how to get to the GSM to PSTN forward remote standby mode, please consult the “3.7Call Forward from GSM to PSTN”

At the GSM to PSTN forward remote standby mode input “*91#” to start the long-distance monitor function.

You will hear a short tone and can hear the sound around the GSM FCT through the microphone.

Input “**90#” to close this function and then you can hear a short tone. You can return to the remote standby mode

When you hang up the long distance monitoring is automatically ended.

For example:

Step1: **35#2# (set the GSM to PSTN forward ring times)

Step2: **36#0000# (set the GSM to PSTN forward manual mode)

Step3: Dial the GSM number of the SIM card in the S190TGH

Step4: After 2 rings delay, you will hear a "BEEP" tone. Input the password slowly.

Step5: If the password is right, you will hear a "BEEP" tone. Input *91# if you hear a "BEEP" tone, then

you will hear the sound near the S190TGH through the microphone.

In this way you can monitor the environment around the S190TGH.

Step6: Input *90#. You will hear a "BEEP" tone. Input the telephone number that you want to forward or hangs up

PSTN line error alarm remind

In this function the GSM S190TGH will check the PSTN line and make a call to a programmed number if the PSTN line fails or is disconnected.

1. Program code **40#0# to turn off this function
2. Program code **40#1# to turn on this function
3. Program code **41#call number# to set the number for the FCT to dial on line failure.

When this function is enabled and the PSTN line fails or is disconnected the GSM FCT will dial the set number by the GSM network.. If the call is not answered it will be repeated 3 times.

If the call is accepted the GSM FCT will send 3 short "BEEP" tones to warn of the telephone line fault.

Call limit function

This function allows you to limit the numbers to which the GSM FCT will dial. With this function enabled the GSM FCT will only allow calls to be made to numbers that are included in the outgoing calls list.

If the call limit function is disabled the FCT will connect to any number dialed.

Program code `**42#0#` to disable limit outgoing number function.

Program code `**42#1#` to enable limit outgoing number function.

Program code `**43# the limit outgoing number#` to set the "limit outgoing number" (10 numbers can be stored)

Program code `**43#the limit outgoing number*#` to delete this number from list.

Program code `**43##` to delete all numbers from the list.

Easy software update with the update port

The PSTN port is also can be used for software update port when connect programmer.

The update software please contact customer care centre to get on-line help

Disable SIM card lock

Disable SIM card lock

The command code is `**52#password A#`

Notice: the password A is setting by user self when he enables SIM card lock creates the password A.

Enable SIM card lock

FCT initial PIN is 1234 for PIN non-activated SIM card; or request PIN code for PIN activated SIM card; after enable this function FCT will create random code as new PIN code for this SIM card. Then this SIM card will be lock to FCT after next restart the FCT.

The command code is `**53#password A#`

Notice: the password A is created by user, when to disable SIM card lock need must use the same password.

Disable phone lock

Disable phone lock.

The command code is `**54#password B#`

Notice: the password B is setting by user self when he enables SIM card lock creates the password B.

Enable phone lock

Setting FCT only can work with present SIM card.

The command code is `**55#password B#`

Notice: the password B is created by user, when to disable SIM card lock need

must use the same password.

Disable network lock

Disable network lock.

The command code is ****56#password C#**

Notice: the password C is setting by user self when he enables SIM card lock creates the password C.

Enable network lock

Setting FCT work only with present SIM cards Network code.

The command code is ****57#password C#**

Notice: the password C is created by user, when to disable SIM card lock need must use the same password.

Disable cell lock

Disable cell lock

The command code is ****58#password D#**

Notice: the password D is setting by user self when he enables SIM card lock creates the password D.

Enable cell lock

Setting FCT only can work in current cell ID list.

The command code is ****59#password D#**

Notice: 1. The password D is created by user, when to disable SIM card lock need must use the same password.

2. The password A, B, C, D is 4 numbers, such as 3333 or 4567.

*3. Set phone, SIM card, network, cell lock command must be set under setting mode. For example, if want to lock cell, must pick ****#** to enter setting mode, then input ****59#password D#***

Command List

Short Review of Command list

Suggested Program List	Function	Default
**#	◆Enter setting mode, all the program code must be used at setting mode	
*#	◆Exit the program code and setting mode	
**00#	◆Restore default setting	
**14#1#	◆FSK	DTMF
**14#2#	◆DTMF	
**14#0#	◆Disable GSM caller ID	
**22#Numbe r* replace to #	◆Prefix Conversion number set	No number
**22#Numbe r* #	◆Del this Prefix Conversion number	

**22# #	◆Del all Prefix Conversion number	
**31#12#	◆PSTN-># number>GSM	**31#52 #
**31#52#	◆GSM-># number->PSTN	
**31#99#	◆Auto Route	
**32#PSTN Routing number#	◆Store router number	No number
**32#PSTN Routing number*#	◆Del this router number	
**32##	◆Del all router number	
**34##	◆Disable call forward PSTN->GSM	Disable
**34#0000#	◆Set PSTN->GSM manual forward mode	
**34#Forwar ding number#	◆Set automatism forward number	
**35#Ring times#	◆Set GSM->PSTN forward ring times	3
**33#Ring times#	◆Set PSTN->GSM forward ring times	3
**36##	◆Disable call forward GSM->PSTN	Disable
**36#0000#	◆GSM->PSTN Set manual forward mode	
**36#Forwar ding number#	◆Set GSM->PSTN automatism forward number	

**37#old password*ne w password #	◆Set the password	1234
**38#GSM list#	◆Set the authorized number (GSM->PSTN mode)	No number
**38#GSM list*#	◆Delete this authorized number (GSM->PSTN mode)	
**38##	◆Delete all authorized numbers	
**01##	◆Check the version	
**06##	◆Check IMEI number	
*91#	◆Enable the Long-distance monitor function	Disable
*90#	◆Quit the Long-distance monitor function	
**40#1#	◆Turn on PSTN line error alarm remind	Disable
**40#0#	◆Turn off PSTN line error alarm remind	
**41#call number#	◆Input the call number	No number
**42#0#	◆Disable limit outgoing number function	Disable
**42#1#	◆Enable limit outgoing number function	
**43# the limit incoming number#	◆Set the limit outgoing number, it can store 10 groups	No number

**43#the limit incoming number*#	◆Delete this limit outgoing number from list	
**43##	◆Delete all the limit outgoing numbers from list	
*91#	◆Enable the long-distance monitor function	Disable
*90#	◆Disable the long-distance monitor function	
*0#	◆Enable the GPRS	Disable
*1#	◆Disable the GPRS	
**15#1#	◆Remote relay control port state2	
**15#0#	◆Remote relay control port state1	**15#0#
**52#passw ord A#	◆Disable SIM card lock	Disable
**53#passw ord A#	◆Enable SIM card lock	
**54#passw ord B#	◆Disable phone lock	Disable
**55#passw ord B#	◆Enable phone lock	
**56#passw ord C#	◆Disable network lock	Disable
**57#passw ord C#	◆Enable network lock	
**58#passw ord D#	◆Disable cell lock	Disable

**59#passw ord D#	◆ Enable cell lock	
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6. Important notes

If the PSTN line is not connected and only GSM network is being used then make sure to de-activate the router list, also de-activate the routing mode.

It is strongly recommended to set the FCT to “Default settings” using the command **00# before using the FCT or in case of any wrong programming done by mistake.

Please do not use any other power supply (adaptor), use only the power adaptor supplied with the FCT.

7. Maintenance

The device is an electronic product of high craftsmanship. Handle it with care to get optimum use.

The Following suggestions will help you to maintain your device.
Use the device at a temperature within 0°C to + 50°C.

Store it in a clean, dust free place. The performance of device can be impaired by dust.

Keep it and all its accessories out of the reach of small children.

Keep it in dry place and do not use harsh chemicals to clean it.

To clean the device, wipe it with a soft anti-static cloth slightly dampened in a mild soap-and-water solution.

Treat the device gently and avoid dropping, knocking or shaking it.