

GSM GPRS QUAD BAND FWP with ANALOG TV & FM RADIO

USER MANUAL – GT850P and GT850DP

Tyler Oh

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REVISION HISTORY

Version	Change Summary	Date	Author
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DATA**

WELCOME TO YOUR GT850P



Main Features

- **QUAD BAND(GSM 850/900/1800/1900) FIXED WIRELESS PHONE**
- **FAST GPRS(CLASS B, MULTISLOT 10) CONNECTION AND COMMUNICATION(GT850DP)**
- **ANALOG TV FEATURE**
- **FM RADIO, CALCULATOR**
- **2.0" 260K-COLOR MAIN TFT LCD**
 - HIGH-PERFORMANCE MAIN DISPLAY OF TFT LCD
 - COLORFUL ANIMATED CHARACTER AND ICON ON MAIN LCD
 - 5-LINE TEXT DISPLAY
- **16-POLY FM MIDI**
- **MULTI-NUMBER PHONE BOOK**
 - : NAME, 4 NUMBERS, GROUP, SPEED DIAL
- **DATA COMMUNICATION FEATURES**
 - DATA VIA GPRS(GT850DP)
 - DIGITAL FAX AND DATA VIA CSD

- 24PIN USB TO SERIAL CONNECTOR(OPTIONAL)

1. Safety Instruction

Here is important information for safe and efficient operation.

Please read this information before using your GT850P.

For optimal performance, install this indoors. When specially used in an outdoor area, it may not work in below 0℃ or over 50℃.

Install GT850P on hard, flat surface for proper ventilation.

Avoid using GT850P in high temperature or near a source of fire or gas.

Avoid storing GT850P in cold areas.

Do not expose GT850P to moisture or dust.

Do not use GT850P in the hospital.

Do not use harsh chemicals, cleaning solvents to clean GT850P. And wipe with a soft, clean, dry cloth to clean it.

Do not knock, drop, and shake GT850P to avoid breaking the case.

Use only the supplied or approved replacements.

Only authorized personnel should service GT850P and its accessories.

Do not use GT850P with a car battery.

Do not touch the antenna when GT850P is being used.

Do not use the unit with a damaged antenna. Have your antenna replaced by a qualified technician immediately.

Use only the provided antennas. Do not use the provided antennas for any other purpose.

Use only the provided adapter. Do not use the provided adapter for any other purpose

If the unit fails to work for any reason, do not attempt to disassemble.

2. Instruction

Front View of GT850P













NUMBER	KEY	DESCRIPTION
1	[Soft 1] key	Activates phone's main menu
2	[Redial] key	Dials the last number you called
3	[SEND] key	Dials a phone number and answers a call.
4	[<] key	Moves to 'Utilities' menu or scrolls left in the menu
5	[^] key	Moves to 'Messages' menu, or scrolls up in the menu.
6	[ok] key	Moves to main menu
7	[v] key	Moves to 'Organizer' menu, or scrolls down in the menu.
8	[>] key	Moves to 'Settings' menu, or scrolls right in the menu.
9	[Soft 2] key	Moves to 'Contacts' menu.
10	[Mute] key	Activates 'Mute' function
11	[END] key	Ends or rejects the call.
12	[TV] key	Activates 'TV' function

13	[FM Radio] key	Activates 'FM radio' function.
14	[CAL] key:	Activates 'calculator' function.
15	[SPEAKER] key	Engages 'Speakerphone' function.

2.2 LCD display

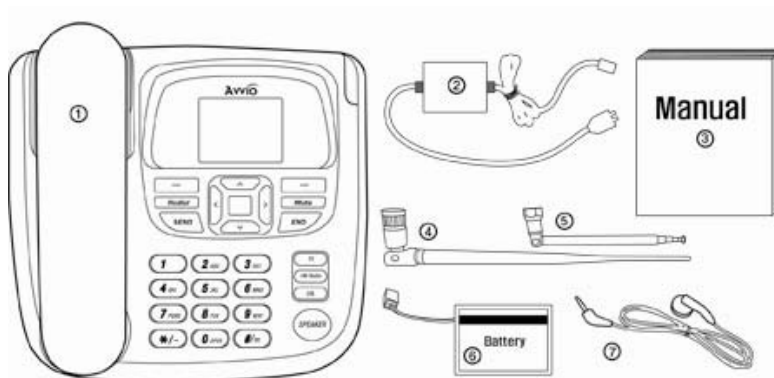
Icons display on the screen to indicate what features you are using, signal strength and the phone status etc.

ICON	OPERATING CONDITION
	Antenna : indicates strength of the received signal. The more bars indicate the stronger signal.
	Call divert : indicates that all calls are diverted.
	Message: shows when a text message is received
	Voice mail: shows when a voice message is received
	In Use: indicates that a voice and data call is in progress.
	Alarm : shows when alarm time is set.
	GPRS : shows when your phone is using a General packet radio(GPRS) service network connection.
	Battery: indicates Battery charge level
	DATA : shows when your phone is receiving and sending data.
	Fax : shows when your phone is receiving and sending a fax

2.3 Installation guide

2.3.1. Check the components

Check to make sure that you have all the parts shown below after opening the package. If any piece is missing or broken, please call GT850P sales agent or customer service.



- | | |
|----------------------|--------------------------|
| 1. MAIN UNIT | 2. DC POWER ADAPTER |
| 3. USER MANUAL | 4. ANTENNA |
| 5. ANALOG TV ANTENNA | 6. LI-ION BACKUP BATTERY |
| 7. MONO EAR RECEIVER | |

2.3.2. Install SIM card

1. Disconnect the power supply.
2. Open the SIM card cover on the bottom side.
3. Insert a SIM card into the socket as shown in the picture.
4. Close the SIM card cover.

NOTE : Make sure the SIM card is aligned properly with the directional arrow on the holder.

2.3.3. Start GT850P with the SIM card.

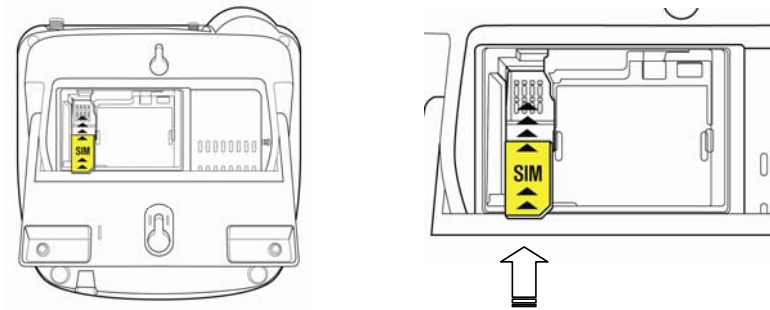
1. Power on your phone
2. Enter a PIN code

3. After entering the correct PIN code, the phone is ready to be used.

Note: You have 3 chances to enter a PIN code.

If incorrect Pin codes are entered 3times, a SIM card will be locked.

To unlock it, you must contact your service provider.

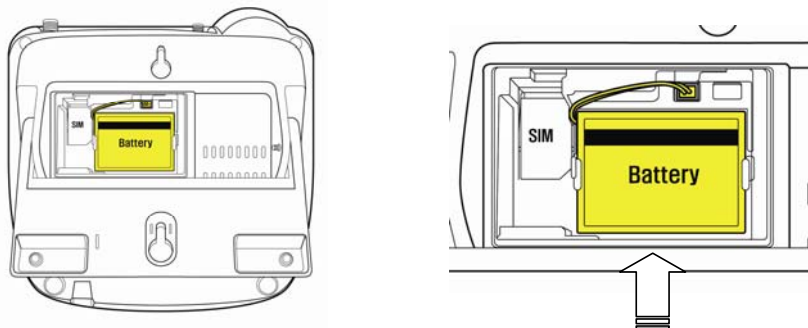


2.3.4. Install battery

1. Disconnect the power supply.
2. Open the battery cover on the bottom side of the phone.
3. Connect the DC power cable to phone.
4. Close the battery cover.

NOTE : Do not use GT850P battery pack else.

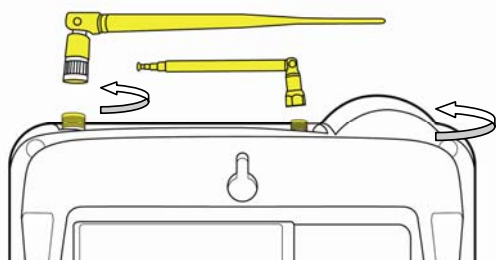
Using any other batteries may result in fire or other damage to the unit.



2.3.5. Desktop installation

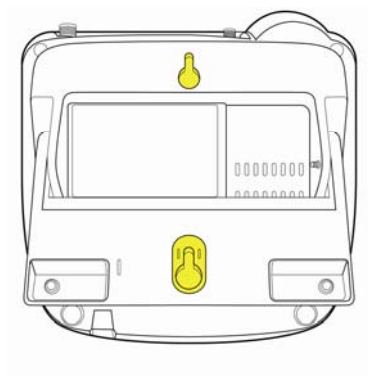
Before you select a location to place it, you must read 1.1 **Safety Instruction** section of this manual.

1. Screw the phone antenna into the phone antenna connector
* Note : finger-tighten the antenna.
2. Screw the analog tv antenna into the analog tv antenna connector
* Note : finger-tighten the antenna.
3. Connect the handset cable to the phone jack and the handset
Plug the DC Adaptor cord into the power supply and an appropriate power outlet.
4. Check signal strength of the antenna icon and move to the unit until you find the best signal possible.



2.3.6. Wall mounting

1. Drill two holes at the marked locations.
2. Tighten screws until the head is about 3~5mm from the wall.
3. Hang GT850P on the screw using two holes in the back.



3. Basic operations

3.1 Making calls

You can make a call as follows.

1. Make sure your phone is turned on.
2. Pick up the handset or press **[SPEAKER]** key. your phone is now off-hook
3. Listen for dial tone.
4. Dial the phone number.

NOTE : To erase the last digit entered, press **[Soft 2]** key

To erase all, press **[Soft 2]** key and hold it

5. Press **[SEND]** key or wait for the Auto time-out.
6. The call is connected and you may start conversation.
7. To end the call, replace the handset or press **[END]** key

3.2 Redialing the last number dialled

You can redial the latest dialled phone number.

1. Pick up the handset or press **[SPEAKER]** key.
2. Listen for dial tone.
3. Press **[Redial]** key.
4. When the call is connected, you may start conversation.
5. To end the call, replace the handset or press **[END]** key

NOTE: You can redial up to 60 numbers saved in 'Call log' menu.

3.3 Receiving calls

When there is an incoming call, your phone rings or backlight blinks in light mode.

You can answer an incoming call as follows,

1. Pick up the handset or press **[SPEAKER]** key
2. Start conversation.
3. To end the call, replace the handset or press **[END]** key.

NOTE: If the number is identified from the phonebook, the name is displayed.

You can also reject the incoming call, pressing **[END]** key or **[Soft 2]**key

3.4 Call waiting

Your phone will notify you of a new incoming call, while you have a call in progress.

If you set this feature enabled, you might put the active calls while you answer the other incoming call.

1. Press **[Soft 1]** key to answer a call waiting during the first call.
2. You may start conversation with caller number.
3. Press **[Soft 1]** key for options to switch between the 2 calls.
4. To end the call, replace a handset or press **[END]** key

3.5 Call Conferencing

Call Conferencing function provides you with the ability to have simultaneous communication with up to 6 persons.

1. Make a call to first party.
2. After the first call is connected, dial the second number.
3. Press **[SEND]** key
4. Press **[Soft 1]** key for options 'Join all' 'Transfer' 'Mute' 'DTMF' and 'Swap'
5. Repeat step 3 and step 4 as required, to add a new participant

NOTE: The Conference Call Service may not be available on all networks.

You may contact your service provider for more information.

3.6 Making international calls

You can dial an overseas phone number as follows.

1. Press **[*]** key and hold it until '+' sign appears in off-hook mode.
2. Enter the country code, the area code (without the leading zero) and the phone number
3. Press **[SEND]** key.

Entering & Editing Text

Your GT850P provides 6 text input modes to enter letters using the keystrokes.

You can press each stroke on the button which scrolls the assigned alphabet letters and numeric value.

3.7.1 Text & number input mode

You can scroll through all these following input modes using [#] key.

- ABC mode (all capital letters)
- Abc mode (next letter capital)
- abc mode (no capitals)
- 123 mode (numeric mode)

3.7.2. Special characters, punctuation input mode

- Symbol mode

Press [*] key to insert sentence marks when entering text.

3.7.3. Predefined phase's mode

- Templates

You can save predefined phases in your phone GT850P, and use the phases immediately.

3.7.4 Main key functions

1. **[Number keys]** ('0~9'keys) : Use each keystroke per letter to write the word,
2. **[O]** key : Press to insert a space or start a new line in 'text' mode
3. **[*]** key : Press to insert special characters in 'text' mode.
4. **[Soft 2]** key : Press to delete a single space or character.

Press and hold it to delete entire words.

For example, to write 'Welcome to your phone GT850P' in Abc mode, follow the steps.

To write	W e l c o m e (space)
Press	9 33 555 222 o 6 33 o

To write	t o (space) y o u r (space)
Press	8 666 o 999 666 88 777 0
To write	(to capital letters) W P (to numbers) 1 0
Press	# 9 7 # 1 0

4. MENU TREE

MAIN MENU	SUB-MENU	SETTING VALUE
1. Contacts	1.View contacts	All, no group, Family, Friends, Colleague, Business, Group1, Group2
	2. New contact	Add contact
	3. Speed dials	Option, Exit.
	4. Copy all	SIM to phone, Phone to SIM
	5. Delete all	Delete SIM memory, Delete phone memory
	6. Settings	Edit groups, Group ring tones, Save contact to, Memory status.
2. Messages	1. New message	Options, Cancel
	2. Inbox	Options, Exit
	3. Outbox	Options, Exit
	4. Draft	Options, Exit.
	5. Template	Options, Exit
	6. Voicemail	Get voice mail. Change number
	7. Cell broadcast	Read message, Language, Subject list, Display on idle screen
	8. SMS Settings	Message centre, Delivery report, Message validity, Message format, Connection type, Memory status
3. Call log	1. All calls	All calls, Dialed called, Received calls, Missed calls

	2. Dialed calls	All calls, Dialed called, Received calls, Missed calls
	3. Received calls	All calls, Dialed called, Received calls, Missed calls
	4. Missed calls	All calls, Dialed called, Received calls, Missed calls
	5. call costs	Last call, All calls, Clear records, Price & unit, Maximum cost
	6. call duration	Last call, All calls
	7. data counter	Last data, All data
4. Utilities	1. Sim application toolkit	
	2. TV	Settings, Exit
	3. FM Radio	Settings, Exit
	4. Calculator	Options, Exit
	5. Stopwatch	Start, Exit
	6. World time	Set local, Exit
5 Organizer	1. Morning alarm	Alarm status, Set time, Alarm tone, Repeat setting
	2. General alarms	Options, Exit
	3. Calendar	Options, Exit
6 Settings	1. Phone	Greeting, own number, Language, Wall paper, Light time-out, Power save time-out, Software version
	2. Sound	Incoming call, Message, key
	3. Date and time	Set time, Set date, Set time zone, Time setting, Time format, Date format, Daylight saving
	4. Call	Caller number, Call waiting, Minute minder, Auto redial
	5. Call divert	Always, When no answer, When busy, When not reachable, Cancel all
	6. Call barring	Incoming calls, Incoming calls if abroad, Outgoing calls, Foreign outgoing calls, Only local and home country calls, Cancel all
	7. Network band select	GSM900/1800, GSM 850/1900, GSM800/900/1800/1900

	8. Security	PIN code request, Phone lock, Change PIN code, Change PIN 2code, Change phone lock code, Handset call barring, Fixed dialling
	9. Reset settings	Yes, No

You can find GT850P has 6 main Menus, 'Contacts', 'Messages', 'Call log', 'Utilities', 'Organizer', 'settings'.

1. Opening the main menu : Press **[Soft 1]** key to access all the applications in your phone,
2. Moving in the menu : Press **[Navigation key -[<] key,[>] key,[V] key, [^] key]** to the left, right, up and down to move in the menu.
3. Opening the application or folder : Press **[Soft 1]**key or **[OK]** key to open it
4. Closing the application or folder : Press **[Soft 2]** key as many times as is needed to return to standby mode or press **[END]** key.

Contacts

Your phone has an internal phone book which can hold up to 500 entries.

You can select from the 6 sub-menus, 'View contacts', 'Add new contact', 'Speed dials', 'Copy all', 'Delete all', 'Settings' in this menu 'contacts'

4.1.1 View contacts

You can access GT850P phone book by pressing **[Soft 2]** key

1. Press **[Soft 2]** key(Contacts) in on-hook state.
2. Press **[Navigation]** key to move in the groups. 'all' 'family' 'friends' 'colleague' 'business' 'group1' 'group 2'
3. To view details of the selected record, press **[OK]** key.
4. To make a call, pick up the handset or press **[SPEAKER]** key and press **[SEND]** key.
5. To select options, press **[Soft 1]** key

Options : 'View', 'Search', 'Add', 'Edit', 'Delete', 'Change group', 'Copy to phone', 'Call', and 'Send message'

4.1.2 New contact

You can store multiple contact details –mobile number, phone number, office number, fax number - under a name as follows

1. Press **[Soft 1]** key (Menu)> **[1]** key(Contacts) > **[2]** key (New contact) in on-hook state.
2. Enter information in your desired item

4.1.3 Speed dials

You can use 'Speed dials' function to make you call faster.

1. Press **[Soft 1]** key (Menu)> **[1]** key(Contacts) > **[3]** key (Speed dials) in on-hook state.
2. Press **[Navigation]** key to move
3. To make a call, press and hold the numeric key (0 - 9) that represents the entry in the speed dial list in off-hook state.
4. To select desired options, press **[Soft 1]** key

Options : 'Add from contacts', 'View number', 'Change', 'Delete',and 'Delete all' options are available

Copy all

You can copy an entry in phone memory to SIM memory, or in SIM memory to phone.memory

1. Press **[Soft 1]** key (Menu)> **[1]** key(Contacts) > **[4]** key (Copy all) in on-hook state.
2. To copy from sim card to the phone, press **[1]** key
To copy from the phone to sim card : Press **[2]** key
3. Select desired option.

Options : 'Keep memory original' and 'Delete original memory' are available

4.1.5 Delete all

You can easily erase all the numbers saved in both SIM memory and phone memory

1. Press **[Soft 1]** key (Menu)> **[1]** key(Contact) >**[5]** key(Delete all) in on-hook state.
2. To delete all in SIM memory, press **[1]** key
To delete all in phone memory, press **[2]** key

3. Press **[Soft 1]** key for 'Yes' **[Soft 2]** key for 'No'

4.1.6 Settings

You can set overall phonebook control. The following setting options are available.

1) Edit groups

Edit the group type of the selected record.

1. Press **[Soft 1]** key (Menu) > **[1]** key(Contact) > **[6]** key(Setting) > **[1]** key(Edit Groups) in on-hook state.
2. Select a group to change its name
3. Press **[OK]** key
4. Enter a name
5. Press **[OK]** key

2) Group ring tones

You can choose a ring tone from 10 different ring tones for each group.

1. Press **[Soft 1]** key (Menu) > **[1]** key(Contacts) > **[6]** key(Setting) > **[2]** key (Group ring tones) in on-hook state.
2. Select a group to change
3. Press **[OK]** key
4. Select a ring tone for the selected group.
5. Press **[OK]** key

3) Save contact to :

You can set a default saving location.

1. Press **[Soft 1]** key (Menu) > **[1]** key(Contacts) > **[6]** key(Setting) > **[3]** key(Save contact to) in on-hook state.
2. Select your desired memory.
3. Press **[OK]** key

4) Memory status

Your phone identifies the memory use in your SIM card and your phone memory

1. Press **[Soft 1]** key (Menu) > **[1]** key(Contacts) > **[6]** key(Setting) > **[4]** key(Memory status) in on-hook state.
2. To delete all, Press **[Soft 1]** key > **[Soft 1]** key(Yes)







4.2 Messages

In 'messages' you can create, send, receive, view, and edit messages.

You can start the 'message' menu by pressing **[^]** key, and select the 8 sub-menus 'New message', 'Inbox',

'Outbox', 'Draft', 'Template', 'Voice mail', 'Cell broadcast', 'Settings'.

There are 6 icons to help you know what kind of messages you have in your phone.

MESSAGE ICON	DESCRIPTION
	Indicates a new text message, but haven't seen yet
	Indicates a new voicemail you received, but haven't seen yet
	Indicates there is not any new message now.
	Indicates a received message which you've already seen
	Indicates a message you sent, but it couldn't be delivered.
	Indicates a message you sent successfully.

* The SMS service may not be available on all networks.

4.2.1 New message

You can create a new message as follows.

1. Press [^] key (Message) > [1] key (New message) in on-hook state
2. Write message
Refer to the '3.7 Entering & Editing Text' section of this manual for text input.
3. Press [OK] key > [OK] key
4. Enter the phone number > [OK] key
5. To select your desired option, press [Soft 1] key.

Options : 'Send', 'Contacts', 'Save', 'Save and save' are available

4.2.2 Inbox

'Inbox' is a storage place for received messages.

Your phone can store maximum 300 message records in phone memory.

If a message has arrived, your phone displays  icon to inform you of the arrival.

You can view the new text messages, by pressing [OK] key on Idle screen, or in this menu.

1. Press [^] key (Message) > [2] key (Inbox) in on-hook state
2. Select a desired message
3. To select your desired option, press [Soft 1] key.

Options : 'View', 'Reply', 'Forward', 'Save the number', 'Delete', and 'Delete all' are available

4.2.3 Outbox

'Outbox' is a storage place for saved messages which have sent or unsent.

Your phone can store maximum 300 message records in phone memory.

1. Press [^] key (Message) > [3] key (Outbox) in on-hook state
2. Select a desired message
3. To select your desired option, press [Soft 1] key.

Options: 'View', 'Reply', 'Forward', 'Save the number', 'Delete', and 'Delete all'. are available

4.2.4 Draft

'Draft ' is a storage place for saved messages to be sent.

Your phone can store maximum 300 message records in phone memory.

1. Press [^] key (Message) > [4] key (Draft) in on-hook state
2. Select a desired message.
3. To select a desired option, press [Soft 1] key.

Options : 'View', 'Reply', 'Forward', 'Save the number', 'Delete', and 'Delete all'. are available

4.2.5 Template

You may add up 10 predefined phrases included in the Templates.

1. Press [^] key (Message) > [5] key (Template) in on-hook state
2. To view details, select a desired phrase.
3. To add, select a desired number.
4. Write a phrase.
5. Press [OK] key
6. To select a desired option, press [Soft 1] key.

Options: 'Edit' 'Send message', and 'Delete' are available

4.2.6 Voicemail

Your phone also provides 'Voicemail' feature.

If a voicemail has arrived, your phone displays  icon to inform you of the arrival.

To view a new text message, press [OK] on Idle screen, or in this menu.

1. Press [^] key (Message) > [6] key (Voicemail) in on-hook state
2. To get voicemails, press [1] key.
Your phone automatically dials to the configured number and be connected.
3. To change the number, press [2] key.
Enter new number, and then press [OK] key

4.2.7 Cell broadcast

This network service allows you to receive the broadcasted text messages on the various topics such as weather, traffic, local district code, local hospitals in the area where you are.

1. Press [^] key (message) > [7] key (Cell broadcast) in on-hook state
2. To read a message, press [1] key, and select a desired message
3. To select your preferred language of the broadcasted message, press [2] key.
Options: 'Read message', 'Language', 'Subject list', and 'Display on idle screen' are available
4. To select the subject item, press [3] key.
5. To set a new broadcasted text message to show on idle screen, press [4] key.

4.2.8 SMS Settings

- 1) Message center
 1. Press [^] key (message) > [8] key (SMS settings) > [1] key (Message center) in on-hook state
 2. Enter number only when it is required.
- 2) Delivery report
 1. Press [^] key (message) > [8] key (SMS settings) > [2] key (Delivery report) in on-hook state
 2. Select 'ON' or 'OFF'
- 3) Message validity
 1. Press [^] key (message) > [8] key (SMS settings) > [3] key (Message validity) in on-hook state
 2. Select your desired validity period
Options : '1 day', '2 days', '1 week', '2 weeks', and '6 months' are available
- 4) Message format
 1. Press [^] key (message) > [8] key (SMS settings) > [4] key (Message format) in on-hook state
 2. Select your desired option.

Options : 'Text', 'Fax', 'Voicemail', 'ERMES', and 'Paging'. are available

5) Connection type

1. Press [**^**] key (message) > [**8**] key (SMS settings) > [**5**] key (Connection type) in on-hook state.

2. Select desired connection type

Options : 'CS only', 'CS preferred', 'GPRS only', and 'GPRS preferred' are available

6) Memory status

Press [**^**] key (message) > [**8**] key (SMS settings) > [**6**] key (Memory status) in on-hook state.

4.3 Call log

Your phone saves logs of the last 20 received, dialled and missed calls each.

You can also find further details of last call ; date and time of the call made, call duration, call costs and the phone numbers.

4.3.1 All calls

1. Press [**SEND**] key (All calls)

2. Select your desired call log item

3. To redial the number you select, pick up the hand set, press [**SEND**] key.

4. To select a desired option, press [**Soft 1**] key.

Options : 'Details', 'Send a message', 'Save number', and 'Delete all' are available

4.3.2 Dialled calls

1. Press [**SEND**] key (All calls) > [**>**] key (Dialled calls)

2. Select your desired call log item

3. To redial the number you select, pick up the hand set, press [**SEND**] key.

4. To select a desired option, press [**Soft 1**] key.

Options : 'Details', 'Send a message', and 'Delete all' are available

4.3.3 Received calls

1. Press [**SEND**] key (All calls) > [**>**] key (Dialled calls) > [**>**] key (Received calls)

2. Select your desired call log item

3. To redial the number you select, pick up the hand set, press [**SEND**] key.

4. To select desired option, press [**Soft 1**] key.

Options : 'Details', 'Send a message', and 'Delete all' are available

4.3.4 Missed calls

1. Press **[SEND]** key (All calls) > **[<]** key (Missed calls)
2. Select your desired call log item
3. To redial the number you selected, pick up the hand set, press **[SEND]** key.
4. To select a desired option, press **[Soft 1]** key.

Options : 'Details', 'Send a message', and 'Delete all' are available

4.3.5 Call costs.

1. Press **[^]** key (Message) > **[3]** key (Call log) > **[5]** key (Call costs) in on-hook state
 2. You can select one from 5 options
- 1) Last call 2) All calls. 3) Clear records 4) price & unit 5) maximum cost

4.3.6 Call duration

1. Press **[^]** key (Message) > **[3]** key (Call log) > **[6]** key (Call duration) in on-hook state
2. Select 'Last call' or 'All calls'

4.3.7 Data counter

1. Press **[^]** key (Message) > **[3]** key (Call log) > **[7]** key (Data counter) in on-hook state
2. Select 'Last call' or 'All calls'

4.4 Utilities

4.4.1 SIM AT

SIM Card provides several value added menu service, SIM Application Toolkit.

1. Press **[<]** key (Utilities) > **[1]** key (SIM AT) in on-hook state
2. Select your desired menu service..

For details of contents and terms of the menu function, contact your network service provider.

4.4.2 TV

You can use an analog television feature with your phone GT850P.

Refer to the '**Appendix : Analog TV user manual**' section of this manual for efficient use of analog TV

1. Press **[<]** key (Utilities) > **[2]** key (TV) in on-hook state
2. To adjust volume and change channel with **[Navigation] key**
3. Select a desired setting option

Options : 'Channel list', 'Delete current channel', 'Channel scan', 'Set screen', and 'Set country' are available

! NOTE : To use the analog TV service, the following conditions are required.

- The device must be switched on.
- The device must have a valid Sim card inserted.
- The network operator you use must support TV service.

! Note : Picture quality varies with reception conditions in each locality.

4.4.3 FM Radio

You can use the application as a traditional FM radio with your phone GT850P

1. Press [**<**] key (Utilities) > [**3**] key (FM radio) in on-hook state
2. To adjust level of the volume and change the channel , use [**Navigation**] key
3. Select your desired setting option

Options : 'Channel list', 'Delete current channel', and 'Channel scan' are available

! NOTE : To use the FM radio service, the following conditions are required.

- The device must be switched on.
- The device must have a valid Sim card inserted.
- The network operator you use must support radio service.

! Note : Picture quality varies with reception conditions in each locality.

4.4.4 Calculator

Your phone has a built-in calculator, which can perform basic arithmetic operations.

1. Press [**<**] key (Utilities) > [**4**] key (Calculator) in on-hook state
2. To perform basic arithmetic operations, use [**Navigation**] key and [**Number**] keys.
[**<**] key : X [**>**] key : / [**V**] key : - [**^**] key : + [**OK**] key : =
3. To select a desired option, press [**Soft 1**] key

Options : 'Reset', 'Save to memory', 'Recall from memory', and 'Clear memory' are available

4.4.5 Stopwatch

Your phone provides you stopwatch feature with ten lap's time.

1. Press [**<**] key (Utilities) > [**4**] key (Calculator) in on-hook state
2. To start, press [**Soft 1**] key
To lab, press [**OK**] key

Then present lap time stop and new lap time immediately start.

3. To returns to initial, press **[Soft 2]** key twice

4.4.6 World time

Your phone has 'World time' feature to identify what time it is in various cities around the world.

You can easily set your local time by pressing **[Soft 1]** key.

1. Press **[<]** key (Utilities) > **[6]** key (World Time) in on-hook state

2. To set local, and select the city, using **[Navigation]** key > **[Soft 1]** key > **[Soft 1]** key

4.5 Organizer

4.5.1 Morning alarm

You can set an alarm clock daily or one time only.

1. Press **[V]** key (Organizer) > **[1]** key (Morning alarm) in on-hook state

In case you have already set alarm, you can view the details.

2. You may select your desired option

Options : 'Set time', 'Alarm tone', and 'Repeat setting' are available

3. To set morning alarm

1) Press **[1]** key (Alarm status) and select 'ON'

2) Press **[2]** key (Set time) and enter time

3) Press **[3]** key (Alarm tone) and select desired alarm tone melody.

4) Press **[4]** key (Repeat daily) and select your desired option

5) Press **[Soft 1]** key

4.5.2 General alarms

You can set 3 more general alarms.

1. Press **[V]** key (Organizer) > **[2]** key (General alarms) in on-hook state

In case you have already set alarm, you can view the details,

2. you can select from 3 options

Options : 'Set time', 'Alarm tone', and 'Repeat setting' are available

2. To set general alarm

Press **[1]** key (Alarm status) and select 'ON'

Press **[2]** key (Set time) and enter time

Press **[3]** key (Alarm tone) and select desired alarm tone melody.

Press **[4]** key (Repeat daily) and select your desired option

Press **[Soft 1]** key

4.5.3 Calendar

If you enter this menu, the date cursor is on the today's date.

1. Press **[V]** key (Organizer) > **[3]** key (Calendar) in on-hook state

2. To move date, use **[Navigation]** key

3. To select desired options, press **[Soft 1]** key

Options : 'Go to date', 'Go to today'

4.6 Settings

4.6.1. Phone setting

1) Greeting

This menu allows you to edit a greeting message in standby mode.

1. Press **[>]** key (Settings) > **[1]** key (Phone setting) > **[1]** key (Greeting) in on-hook state

2. Write words for greeting

3. Press **[OK]** key

2) Your phone number.

This menu displays your phone number. It also allows you to edit and add your phone number.

1. Press **[>]** key (Settings) > **[1]** key (Phone setting) > **[2]** key (Your phone number) in on-hook state.

2. To select a desired option, press **[Soft 1]** key.

Options : 'Edit', 'Add', and 'Delete' are available

3) Language

You can change the language for the display texts in your phone.

1. Press **[>]** key (Settings) > **[1]** key (Phone setting) > **[3]** key (Language) in on-hook state

2. Select your desired language.

If you select 'automatic', the phone selects the language according to the information on your SIM card.

4) Wallpaper

You can select the look and the image to be displayed on the idle screen

1. Press [**>**] key (Settings) > [**1**] key (Phone setting) > [**4**] key (Wallpaper) in on-hook state
2. Select your desired wall paper.
3. Press [**Soft 1**] key to save.

5) Light time out

You can select backlighting time of the Main LCD screen.

1. Press [**>**] key (Settings) > [**1**] key (Phone setting) > [**5**] key (Light time out) in on-hook state.
2. Select your desired period option

Options: '5seconds', '15seconds', '30seconds', and '1minute' are available

6) Power time save

When 'light time-out' option is over, 'Power time save' option is activated.

1. Press [**>**] key (Settings) > [**1**] key (Phone setting) > [**6**] key (Power time save) in on-hook state
2. Select your desired period option

Options: '5seconds', '15seconds', '30seconds', and '1minute'. are available

7) Software version

Your phone displays the Phone Software version, PRL version, Hardware version.

1. Press [**>**] key (Settings) > [**1**] key (Phone setting) > [**7**] key (Software) in on-hook state

4.6.2 Sound

you can choose your phone's sound settings such as Ring tone, volume level to your environment.

1) Incoming call

1. Press [**>**] key (Settings) > [**2**] key (Sound) > [**1**] key (Incoming call) in on-hook state.
2. To change ring tone, press [**1**] key (Ring tone) > [**Soft 1**] key.

Select your desired ring tone > [**Soft 1**] key.

3. To select a volume level of tone sound, press [**2**] key (Volume level)

Select the desired volume level by using [**Navigation**] key> [**Soft 1**] key.

4. To select a volume level of speaker sound, press [**3**] key (Speaker Volume)

Select the desired volume level by using **[Navigation]** key> **[Soft 1]** key.

2) Message

Allows you to set the ring tone for new text messages

1. Press **[>]** key (Settings) > **[2]** key (Sound) > **[2]** key (Message) in on-hook state.
2. To change ring tone, press **[1]** key (Message tone) > **[Soft 1]** key.
Select your desired ring tone > **[Soft 1]** key.
3. To select a volume level of tone sound, press **[2]** key (Message volume)
Select the desired volume level by using **[Navigation]** key> **[Soft 1]** key.

3) Key

Allows you to select desired key tone type.

1. Press **[>]** key (Settings) > **[2]** key (Sound) > **[3]** key (Key) in on-hook state.
2. To select key tone type, press **[1]** key (Key tone)
Select your desired tone type, 'Beep', 'Tone', 'off' to select
3. To select a volume level of key tone, press **[2]** key (Key volume)

4.6.3 Date and time

You can change the Date and time setting displayed on the idle screen with this menu.

1) Set time

Allows you to change the time displayed on the idle screen.

1. Press **[>]** key (Settings) > **[3]** key (Date and time) > **[1]** key (Set time) in on-hook state.
2. Enter time
3. Press **[Soft 1]** key.

2) Set date

Allows you to change the date displayed on the idle screen.

1. Press **[>]** key (Settings) > **[3]** key (Date and time) > **[2]** key (Set date) in on-hook state.
2. Enter date
3. Press **[Soft 1]** key.

3) Set time zone

Allows you to set the time zone you date displayed on the idle screen.

1. Press **[>]** key (Settings) > **[3]** key (Date and time) > **[3]** key (Set time zone) in on-hook state.
2. To set local, select the city, using **[Navigation]** key > **[Soft 1]** key > **[Soft 1]** key

4) Time setting

You can select time setting type whether the current time is automatically set by the network or be manually set on the phone.

1. Press [**>**] key (Settings) > [**3**] key (Date and time) > [**4**] key (Time setting) in on-hook state.
2. Select a desired option, 'Manual', or 'Automatic'
3. Press [**Soft 1**] key.

5) Time format

Allows you to set time format to be 12-hour or 24-hour format.

1. Press [**>**] key (Settings) > [**3**] key (Date and time) > [**5**] key (Time format) in on-hook state.
2. Select desired option, '12hour, and '24 hour'
3. Press [**Soft 1**] key.

6) Date format

Allows you to set date format to be dd/mm/yyyy, mm/dd/yyyy, yyyy/mm/dd

1. Press [**>**] key (Settings) > [**3**] key (Date and time) > [**6**] key (Date format) in on-hook state.
2. Select desired option.
Options : 'dd/mm/yyyy', 'mm/dd/yyyy', 'yyyy/mm/dd'
3. Press [**Soft 1**] key.

7) Daylight saving

Allows you to set daylight saving.

Before you set it, you must set time zone and check whether the country you are in has used DST.

1. Press [**>**] key (Settings) > [**3**] key (Date and time) > [**7**] key (Daylight saving) in on-hook state.
2. Select 'Yes' or 'No'
3. Press [**Soft 1**] key.

4.6.4 Call

1) Caller number

This feature lets you view the following line identification settings.

- Show your number

your phone number will be displayed on the called person's phone when you make a call.

1. Press [**>**] key (Settings) > [**4**] key (Call) > [**1**] key (Caller number) > [**1**] key (Show your number) in on-hook

state.

2. Select 'Yes' or 'No'

3. Press [**Soft 1**] key.

- Hide your number

Your phone number will not appear on the called person on your phone when you make a call.

1. Press [**>**] key (Settings) > [**4**] key (Call) > [**1**] key (Caller number) > [**2**] key (Hide your number)in on-hook state.

2. Select 'Yes' or 'No'

3. Press [**Soft 1**] key.

- Show caller number

The caller's phone number will be displayed on your phone when you receive a call.

1. Press [**>**] key (Settings) > [**4**] key (Call) > [**1**] key (Caller number) > [**3**] key (Show caller number)in on-hook state.

2. Select 'Yes' or 'No'

3. Press [**Soft 1**] key.

- Hide caller number

The caller's phone number won't be displayed on your phone when you receive a call.

1. Press [**>**] key (Settings) > [**4**] key (Call) > [**1**] key (Caller number) > [**4**] key (Hide caller number)in on-hook state.

2. Select 'Yes' or 'No'

3. Press [**Soft 1**] key.

- Show caller name

The caller's phone name will be displayed on your phone when you receive a call.

1. Press [**>**] key (Settings) > [**4**] key (Call) > [**1**] key (Caller number) > [**5**] key (Show caller name)in on-hook state.

2. Select 'Yes' or 'No'

3. Press [**Soft 1**] key.

2) Call waiting

You can put the active call on hold while you answer the other incoming call with this feature.

For further details, read **[3.4. Call waiting]** of the manual

1. Press [**>**] key (Settings) > [**4**] key (Call) > [**2**] key (Call waiting)

2. Select 'On', 'Off', 'Status'

3. Press **[Soft 1]** key.

3) Minute minder

Your phone can make a sound in every 1 minute to let you know how long you are calling.

1. Press **[>]** key (Settings) > **[4]** key (Call) > **[3]** key (Minute minder)
2. Select 'On', 'Off'
3. Press **[Soft 1]** key.

4) Auto redial

You can set your phone have five attempts to redial a phone number after an Unsuccessful call.

1. Press **[>]** key (Settings) > **[4]** key (Call) > **[4]** key (Auto redial)
2. Select 'On', 'Off'
3. Press **[Soft 1]** key.

4.6.5 Call divert

When this network service is activated, you can forward your incoming calls to another number. While you are on holiday you can use this function to divert your business calls to a colleague.

1. Press **[>]** key (Settings) > **[5]** key (Call divert)
2. Select when you want to divert
 - [1]** key for 'Always' : All incoming calls are diverted.
 - [2]** key for 'When no answer' : Incoming call is diverted if you do not answer the call.
You can change the unanswered delay time.
 - [3]** key for 'When busy' : Incoming call is diverted if you are already in another call.
 - [4]** key for 'When not reachable' : Incoming call is diverted if you are not in an area connectable.
 - [5]** key for 'Cancel all' : All call divert settings are deactivated.
3. Select which call you want to divert,
 - [1]** key for 'Voice calls',
 - [2]** key for 'Data'
 - [3]** key for 'Fax'
4. Select desired options
Options : 'Activate', 'Deactivate', 'Check Status'
5. Press **[Soft 1]** key
6. Enter number to divert to
7. Press **[Soft 1]** key

4.6.6 Call barring

You can restrict the use of the phone by unauthorized persons.

To use Barring options, you must enter your network password.

1. Press [**>**] key (Settings) > [**6**] key (Call barring)

2. Select when you want to divert

Press [**1**] key for 'Incoming calls' : All incoming calls are barred.

[**2**] key for 'Incoming calls if abroad' : All Incoming calls are barred when abroad.

[**3**] key for 'Outgoing calls' : All outgoing calls cannot be made

[**4**] key for 'Foreign outgoing calls' : Any outgoing international calls cannot be made.

[**5**] key for 'Only local and home country' : When abroad, outgoing call can be made only to numbers within the current country and to your home country that is the country where your home network provider is located.

[**6**] **key** for 'Cancel all' : All call barring settings are deactivated.

Calls can be made and received normally

3. Select which call you want to divert,

[**1**] key for 'Voice calls',

[**2**] key for 'Data'

[**3**] key for 'Fax'

4. Select desired options

Options : 'Activate', 'Deactivate', 'Check Status'

5. Press [**Soft 1**] key

6. Enter network password.

7. Press [**Soft 1**] key

4.6.7 Network band select

Your phone supports all of the band types provided by the wireless service network provider in the world.

1. Press [**>**] key (Settings) > [**7**] key (Network band select)

2. Select the desired band.

Band types : GSM900/1800, GSM850/1900, GSM800/900/1800/1900

Note: Only authorized personnel should set the band mode, faulty setting may be dangerous and invalidate the warranty.

4.6.8 Security

The feature enables you to protect the use of your phone. Various codes and passwords are used to protect your phone.

1) Pin code request

1. Press [**>**] key (Settings) > [**8**] key (Security) > [**1**] key (Pin code request)
 2. To set Pin code, select 'ON' > Enter PIN code> press [**OK**] key Or 'off' keys > [**Soft 1**] key
- To cancel PIN code, select 'Off' > Press [**Soft 1**] key

2) Phone lock

With this menu set to **On**, your phone will be locked.

When locked, you can receive incoming calls or make only emergency calls.

To use the phone in lock mode, you should enter lock code

1. Press [**>**] key (Settings) > [**8**] key (Security) > [**2**] key (Phone lock)
2. Enter lock code
3. Press [**Soft 1**] key
4. Select 'ON' or 'OFF'
5. Press [**Soft 1**] key

3) Change PIN code

1. Press [**>**] key (Settings) > [**8**] key (Security) > [**4**] key (Change PIN code)
2. Enter old PIN> press [**Soft 1**] key
3. Enter new PIN> press [**Soft 1**] key
4. Repeat new PIN> press [**Soft 1**] key > [**Soft 1**] key

4) Change PIN2 code

1. Press [**>**] key (Settings) > [**8**] key (Security) > [**4**] key (Change PIN2 code)
2. Enter old PIN2> press [**Soft 1**] key
3. Enter new PIN2> press [**Soft 1**] key
4. Repeat new PIN2> press [**Soft 1**] key > [**Soft 1**] key

5) Change telephone lock code

1. Press [**>**] key (Settings) > [**8**] key (Security) > [**5**] key (Change telephone lock code)
2. Enter old lock code> press [**Soft 1**] key
3. Enter new code> press [**Soft 1**] key
4. Repeat new code> press [**Soft 1**] key > [**Soft 1**] key

6) Handset call barring

This feature allows you to restrict your calls with GT850P.

1. Press [**>**] key (Settings) > [**8**] key (Security) > [**6**] key (Handset call barring)

2. To bar incoming, press **[1]** key

Select 'On' or 'Off' > Press **[Soft 1]** key.

3. To bar outgoing press **[2]** key

Select one from 3 options 'All' 'Preset' or 'Off' > Press **[Soft 2]** key.

7) Fixed dialling

Fixed dialling features allows you to only make a call with the numbers which are stored in the fixed dial list

To have fixed dialling to be set,

1. Press **[>]** key (Settings) > **[8]** key (Security) > **[7]** key (Fixed dialling)

2. To set it on, Select 'ON' > Enter PIN2 number > Press **[Soft 1]** key.

To set it off, select 'OFF' > enter PIN2 number > press **[Soft 1]** key.

To view a fixed dial list

1. Press **[>]** key (Settings) > **[8]** key (Security) > **[7]** key (Fixed dialing)

2. Press **[2]** key (Fixed dial list)

3. Press **[Soft 1]** key for the options

Options : 'Find', 'Add', 'Edit', and 'Delete' are available

4.6.9 Reset settings

Returns to factory setting, but User data is not erased.

1. Press **[>]** key (Settings) > **[9]** key (Reset settings)

2. Select 'Yes' or 'No'

5. Data and Fax call

You can transfer data or a fax to other devices via a data cable that is connected to PC. The data cable is used to connect your phone to the PC's serial port.

To send and receive e-mail and faxes, connect to the computer and access the Internet, you need the appropriate data/fax communication software installed on your computer.

Also, you have to subscribe the data service when you subscribe a network service provider.

This service varies depending on the network, so contact service provider before you start using the service.

5. 1 Modem configuration setting on the PC

Your phone has an integral modem. You need to install a standard modem in your PC's operating system.

1. Power on your laptop.

2. Access the control panel and select the modem option
3. Install a new modem device with the following specifications
 - Modem type : standard 19200 bps modem
 - Maximum speed of the serial port : 19200
 - Data bits : 8
 - Parity : none
 - Stop bits : 1
 - Use flow control : enable this option and select hard ware (RTS/CTS)
 - Extra settings: AT & DT

6. General information

6.1 Specifications

MAIN UNIT

ITEM	GT850P/GT850DP
Frequency range	GSM850, GSM900, DCS1800, PCS1900
Protocol	GSM (GT850P), GSM/GPRS Class B(GT850DP)
Connection port	Serial port(Data/Fax)
Size(mm)	195*190*115
Weight	About 670g with a standard battery
Working condition	Environment temperature: -10℃ ~ 50℃ Relative humidity : 10~95% Air pressure : 86~106kpa

AC/DC ADAPTER

Input voltage	AC100-240V
Input Frequency	50/60Hz
output voltage	5V 1A

INTERNAL BACK-UP BATTERY

Capacity	Li-ion battery 3.7V, 1000mAh
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6.2 Additional safety information

For the efficient and safe operation of your phone, observe these guidelines.

EVERYDAY USE OF YOUR PHONE

For normal operating position, hold your phone as you would any other telephone, with the antenna pointed up and over your shoulder.

Do not touch the antenna unnecessarily when your phone is in use, as this will affect call quality and may cause the phone to operate at a higher power level than otherwise needed.

As with any other radio transmitting equipment, you are advised that for the satisfactory operation of your phone and for your own safety, you should use your phone only in the normal operating position.

NON-IONIZING RADIATION (EXPOSURE TO RADIO FREQUENCY SIGNALS)

Your phone is a low power radio transmitter and receiver. When it is on, it receives and also sends the radio frequency (RF) signals. Most modern electronic equipment is shielded from RF signals. However, certain electronic equipment may not be shielded against the RF signals from your mobile phone. RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Consult your vehicle manufacturer and the manufacturer of any equipment that has been added to the vehicle.

PACEMAKERS

The Health Industry Manufacturers Association recommends that a minimum separation of six inches be maintained between a mobile phone and a pacemaker to avoid potential interference with the pacemaker. Users with pacemakers: Always keep your phone at least 20 cm (6inches) from your pacemakers when the phone is switched on. Switch off your phone immediately if you suspect that interference is being caused.

OTHER MEDICAL DEVICES

If you use any other medical devices, please consult a physician or the manufacturer of the medical devices to determine if they are adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information. Always check the regulations of the healthcare facilities, which generally request that all mobiles are switched off on entry.

OPERATING ENVIRONMENT

Remember to follow any special regulations in force in any area, and always turn off your phone wherever it is forbidden to use it, or when it may cause interference or danger.

EXPLOSIVE ATMOSPHERES AND MATERIALS

Turn your phone off and do not remove the battery when in any area with a potential explosive atmosphere and obey all signs and instructions. You must observe restrictions on the use of radio equipment in fuel depots;

below deck on boats; fuel or chemical transfer or storage facilities; areas where the air contains chemicals or particles, such as grain, dust, or metal powders; areas with signs about explosive atmospheres or where blasting operations are in progress; any other areas where you would normally be advised to turn off your vehicle engines.

BATTERY CHARGING

Do not charge the phone without the battery in place.

Please use only approved batteries and chargers.

6.3 Troubleshooting

Item	Remedy
Phone can not work.	Make sure the phone is installed properly. Make sure the battery is fully charged. Make sure your wireless account is activated and service is established.
Call can not be received	Make sure the phone is placed on the cradle.
No dial tone when handset lift	Check the joint of the handset and phone.
Noise exists	Keep away from the electronic application such as a TV, and a radio.
Battery fails to charge.	Check that the authorized adopter is correctly connected to the power connector.

7. Conformance Statements

RF EXPOSURE INFORMATION THIS MODEL PHONE MEETS THE GOVERNMENT 'S REQUIREMENTS FOR EXPOSURE TO RADIO WAVES:

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluate on of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg.*Tests for SAR are conducted with the

phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output. Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government adopted requirement for safe exposure.

The tests are performed in positions and locations as required by the FCC. The highest SAR value for this model phone is 1.43 W/kg(GSM 850 Band Body), 0.821 W/kg(GSM 900 Band Body), 0.190 W/kg(GSM 1800 Band Body), 0.226 W/kg(GSM 1900 Band Body). While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure. The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of [http://www.fcc.gov / oet / fcc id](http://www.fcc.gov/oet/fccid) after searching on FCC ID : VP3GT30DP.

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications & Internet Association (CTIA) web-site at <http://phonefacts.net>. *In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements. In August 1996 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency (RF) electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of this phone complies with the FCC guidelines and these international standards.

For more information about RF exposure, please visit the FCC website at www.fcc.gov

Near-Body Operation To maintain compliance with FCC RF exposure requirements, maintain a 2.5cm(0.98 inch), separation distance between the user's body and the phone, including the antenna, whether extended or retracted. **WARNING!** Read this information before use. Caution: Modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

INFORMATION TO USER:

This equipment has been tested and found to comply with the limits for a Class B digital device, Pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio Frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

FCC WARNING:

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

CE USER INFORMATION:

Hereby, **Brightstar Corporation** declares that this **Fixed wireless phone** (M/N: **GT850P**) is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

EU directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE):

Brightstar Corporation is focused on developing a compliance program for the European Union ("EU") Directive on Waste Electrical and Electronic Equipment, Directive 2002/96/EC. Under the EU WEEE Directive, manufacturers of covered electronic equipment are obligated to take back such products at the end of their useful life. We are committed to meeting or exceeding environmental standards in the production of all products and is engaged in a comprehensive, company-wide effort towards full compliance with the EU WEEE Directive.

APPENDIX A:

ANALOG TV USER MANUAL

Note

In order to use television function, your network provider should support the TV service.

For further details, you may contact your service provider.

!NOTE : If you do not have access to the TV service, or if picture quality on display is not good enough, the operators and TV stations in your area may not support it as much as required.

The TV service may not be available in all areas and countries.

Before you start,

Activate your TV feature, by pressing **[TV]** key in on-hook state.

Then your phone displays the icons related to television reception conditions and current use information



NUMBER	DESCRIPTION	
1	Channel : indicates the current TV channel selected.	
2		Antenna : Indicates strength of the TV received signal.
		The more bars indicate the stronger signal.
3		Indicates there isn't enough TV signal received to work.
	Battery : Indicates Battery charge level	

4	Time: Indicates the current time
5	Volume level bar : indicates the level of TV speaker volume appears by pressing [<] key, or [>] key,
6	Settings : be able to set overall TV control, to select it, press [Soft 1] key
7	Shows that you can change the channel by pressing [^] key, [v] key,
8	Shows that you can control the volume level by pressing [<] key, or [>] key,
9	Exit : Ends or rejects by pressing [Soft 2] key,

Basic settings

You can also set the overall TV control in (Settings) by pressing [**Soft 1**] key.

Following setting options are available.

1. Channel list

With this option, you can view an available channel list to select.

You can move in the list by pressing [**^**] key, [**v**] key, select desired channel with [**Soft 1**] key (Select).

To return, press [**Soft 2**] key (Exit).

Note : if there are channels saved in the list, you can access it by pressing [**OK**] key

2 . Add / delete current channel

With this option, you can add or delete the current channel.

If you haven't had current channel saved in the channel list, you can find 'Add current channel'.setting option.

To save current channel, select this option and press [**Soft 1**] key for 'Yes'

If you have already saved current channel in the list, now, you can find the option 2 as 'Delete current channel'

To delete it in the list, select this option. Then you may find "Delete current channel?" message.

press [**Soft 1**] key for 'Yes', or press [**Soft 2**] key for 'No'.

3. Channel scan

This option allows phone to start a channel search. Once you select 'Channel scan', it works automatically.

To exit, press [**Soft 2**] key (Scan stop)

NOTE : Only if there is no channel saved, you can easily access 'Channel Scan ' option just with [**OK**] key.

'Auto Scan 'message appears, press [**Soft 1**] key to start it.

4. Set screen

You can choose the overall level of brightness, color, and tint with this option.

To select your desired display setting, press [^] key, [v] key

Adjust its level as much as you want with **[Navigation]** key.

And press **[Soft 1]** key to save or **[Soft 2]** key to cancel it

5. Set country

You are required to set the country option, only if there was no network coverage when the application was started or it is the first time you use TV feature with GT850P,

You can select the country you are currently located in by pressing [^] key, [v] key,

And press **[Soft 1]** key to save or **[Soft 2]** key to cancel it

APPENDIX B:

FM RADIO SER MANUAL

Note

In order to use FM Radio function, your network provider should support the radio service.

For further details, you may contact your service provider.

! NOTE : If you do not have access to the FM Radio service, the operators and TV stations in your area may not support it.as much as required.

The FM Radio service may not be available in all areas and countries.



Before you start,

Activate your FM radio feature, by pressing **[FM Radio]** key in on-hook state.

Then your phone displays the icons related to reception conditions and current use information



메모 [winston1]: 미희씨
그림에 번호 넣어주세요.

NUMBER	DESCRIPTION	
1		Antenna : Indicates strength of the radio received signal. The more bars indicate the stronger signal.
		Indicates there isn't enough FM radio signal received to work.
2	Battery : Indicates Battery charge level	
3	Channel : indicates the current channel selected. you can change the channel by pressing [^] key, [V] key,	
4	Volume level bar : indicates the level of the speaker volume You can control it by pressing [<] key, or [>] key,	

메모 [winston2]: 안테나
없는거 삽입

5	Options : be able to set overall FM radio control, to select it, press [Soft 1] key
6	Exit : Ends or rejects by pressing [Soft 2] key,

Basic settings

You can also set the overall FM Radio control in (Settings) by pressing **[Soft 1]** key.

Following setting options are available.

1. Channel list

With this option, you can view an available channel list to select.

You can move in the list by pressing **[^]** key, **[v]** key, select desired channel with **[Soft 1]** key (Select).

To return, press **[Soft 2]** key (Exit).

Note : If there are channels saved in the list, you can access it by pressing **[OK]** key

2. Add / delete current channel

With this option, you can add or delete the current channel.

If you haven't had current channel saved in the channel list, you can find 'Add current channel' setting option.

To save current channel, select this option and press **[Soft 1]** key for 'Yes'

If you have already saved current channel in the list, now, you can find this option 2 as 'Delete current channel'

To delete it in the list, select this option. Then you may find "Delete current channel?" message.

Press **[Soft 1]** key for 'Yes', or press **[Soft 2]** key for 'No'.

3. Preset on

This option allows you to change between your desired channels with convenience.

When you set this option on, you can only move from the channel to the channel in the list.

Note : Before using this option, you should have channels saved in the list.

To move to the channel saved else, set this option 'preset' off.

When 'Preset' is set off, you can move by 0.05 MHz at a time.

4. Channel scan

This option allows phone to start a channel search. Once you select 'Channel scan', it works automatically.

To exit, press **[Soft 2]** key (Scan stop)

NOTE : Only if there is no channel saved, you can easily access 'Channel Scan' option just with **[OK]** key.

'Auto Scan' message appears, press **[Soft 1]** key to start it.

APPENDIX C:

HOW TO SET UP DATA CONNECTION FOR CIRCUIT SWITCHED DIGITAL FAX/DATA AND GPRS DATA

1. INTRODUCTION

FOR THE DATA CONNECTION, BELOW REQUIREMENTS ARE NEEDED.

- SIM CARD FROM YOUR NETWORK SERVICE PROVIDER INCLUDING A CIRCUIT SWITCHED DATA, FAX FACILITY AND GPRS.
- PC OR LAPTOP WITH USB PORT
- WINDOWS 2K OR LATER VERSION
- USB DATA CABLE INCLUDED IN BOX

NOTE THIS MANUAL IS FOR WINDOWS XP. SETTING IN OTHER WINDOWS VERSIONS IS SIMILAR.

2. INSTALL THE DRIVER FILES

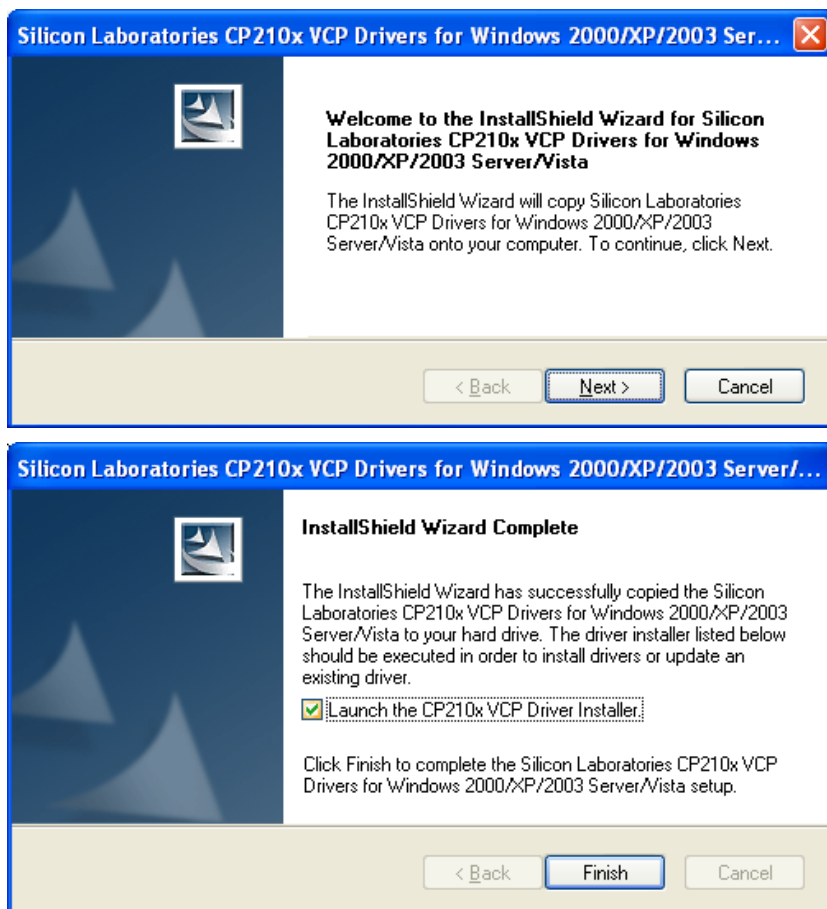
1. EXTRACT THE DRIVER FILE "CP210X_VCP_WIN2K_XP_S2K3.ZIP"

NOTE DOWNLOAD ALSO AVAILABLE ON THE VCP(VIRTUAL COM PORT) DRIVER MANUFACTURER'S HOMEPAGE:[HTTP://WWW.SILABS.COM/TGWEBAPP/PUBLIC/WEB_CONTENT/PRODUCTS/MICROCONTROLLERS/USB/EN/MCU_VCP.HTM](http://www.silabs.com/TGWebApp/Public/Web_Content/Products/Microcontrollers/USB/EN/MCU_VCP.HTM)

2. LAUNCH THE "CP210X_VCP_WIN2K_XP_S2K3.EXE" FILE. THEN, MANY FILES ARE INSTALLED IN "C:/SILABS /MCU" DIRECTORY (DEFAULT DIRECTORY).

3. EXECUTE BELOW FILE FOR INSTALLING DRIVER.

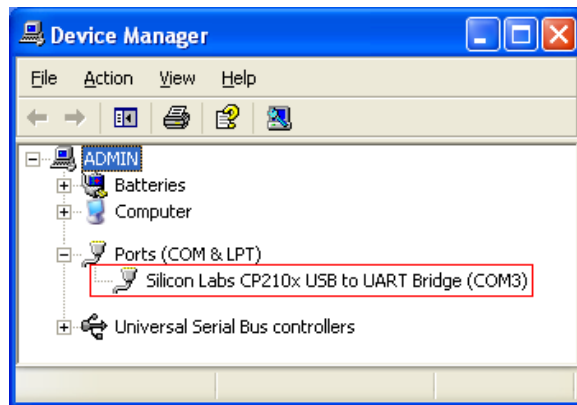
"C:/SILABS/MCU/CP210X/WINDOWS_2K_XP_S2K3_VISTA/CP210XVCPINSTALLER.EXE"



NOTE AFTER INSTALLING DRIVER FILE, YOU COULD NEED TO REBOOT THE PC.

3. INSTALL NEW MODEM

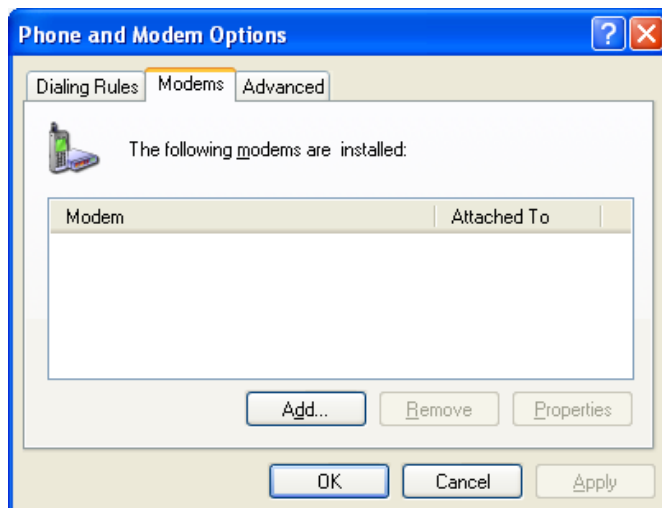
CONNECT THE PHONE TO PC USING USB DATA CABLE, CABLE DRIVER IS INSTALLED AUTOMATICALLY.
AFTER INSTALLING YOU CAN SEE NEW PORTS (COM & LPT) IN A DEVICE MANAGER WINDOW.



NOTE IN THE COM3, COM PORT NUMBER COULD BE DIFFERENT ON THE PC ENVIRONMENT.

GO TO THE "NETWORK CONNECTIONS" MENU.

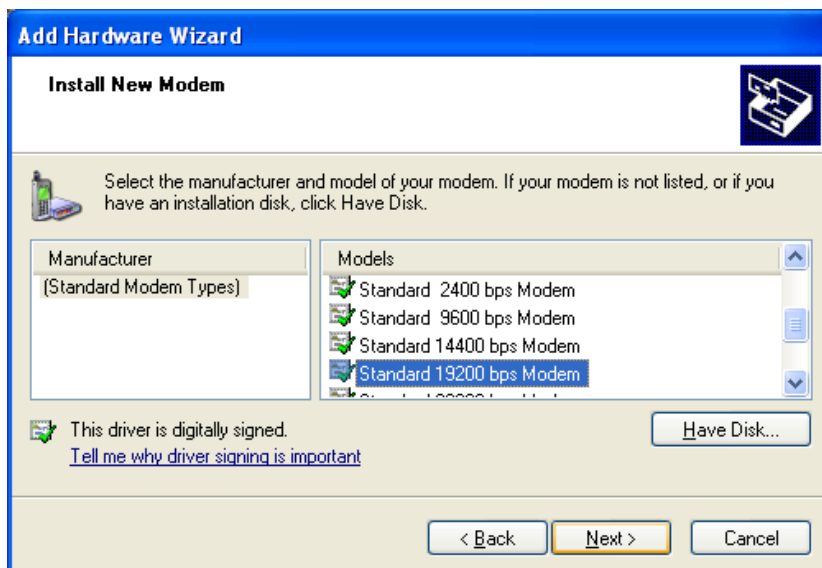
START BUTTON > CONTROL PANEL > PRINTER AND OTHER HARDWARE > PHONE AND MODEM
OPTIONS AND SELECT THE ADD BUTTON FROM MODEMS FROM TAP MENU.



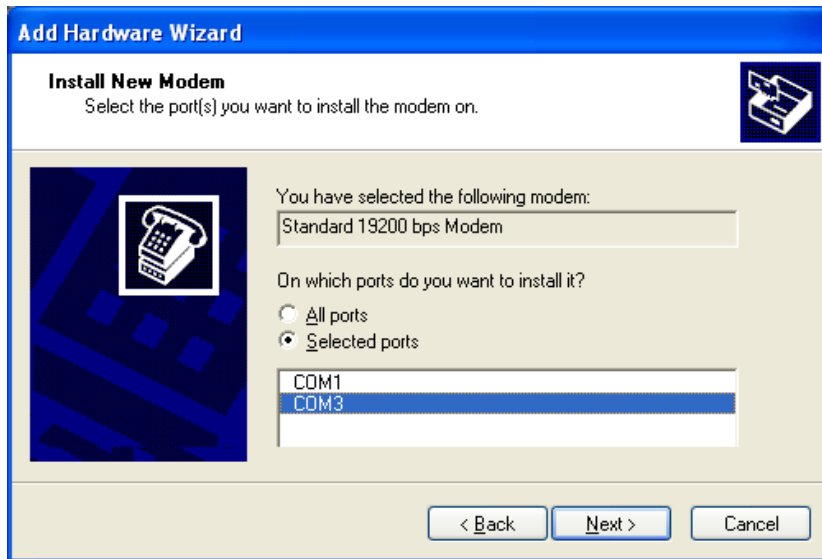
SET AS SHOWN BELOW. AND PRESS THE NEXT BUTTON.



SELECT "[STANDARD MODEM TYPES]" AND "STANDARD 19200 BPS MODEM". AND PRESS THE NEXT BUTTON.

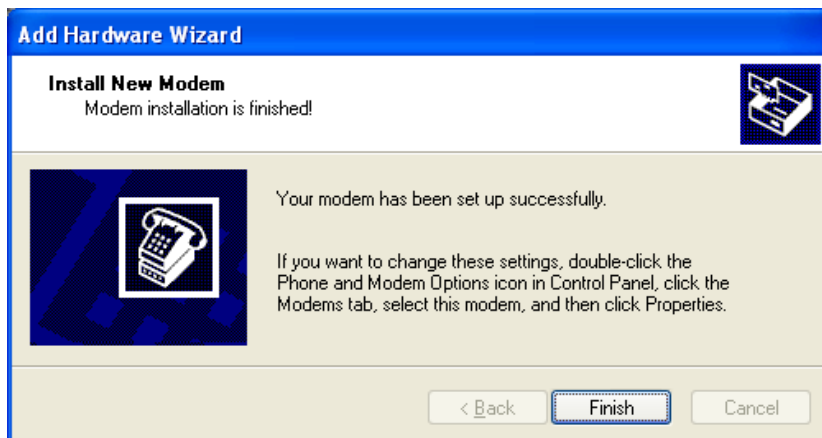


SELECT A APPROPRIATE PORT THAT YOU HAVE SELECTED. THIS MAY TAKE SEVERAL MINUTES.



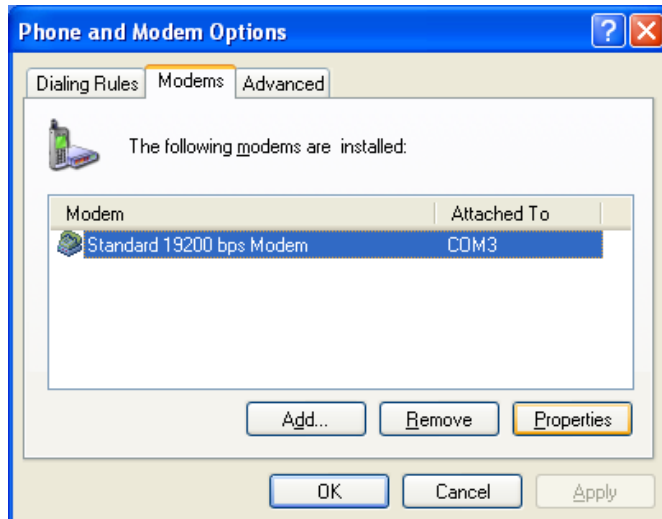
NOTE IN THE COM3, COM PORT NUMBER COULD BE DIFFERENT ON THE PC ENVIRONMENT.

IF YOU SEE BELOW WINDOW, MODEM IS INSTALLED SUCCESSFULLY.

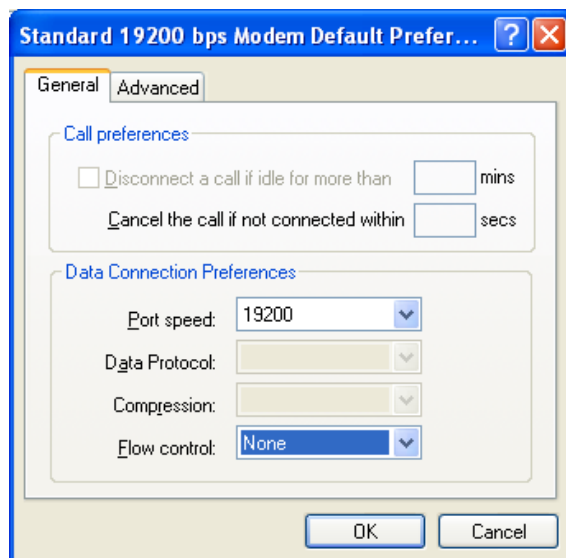


NEW MODEM IS LISTED IN BELOW WINDOW.

SELECT THE NEW MODEM, AND PRESS THE PROPERTIES BUTTON FOR SETTING.



SELECT "ADVANCED" MENU. AND SET AS BELOW WINDOW. AND PRESS THE OK BUTTON.



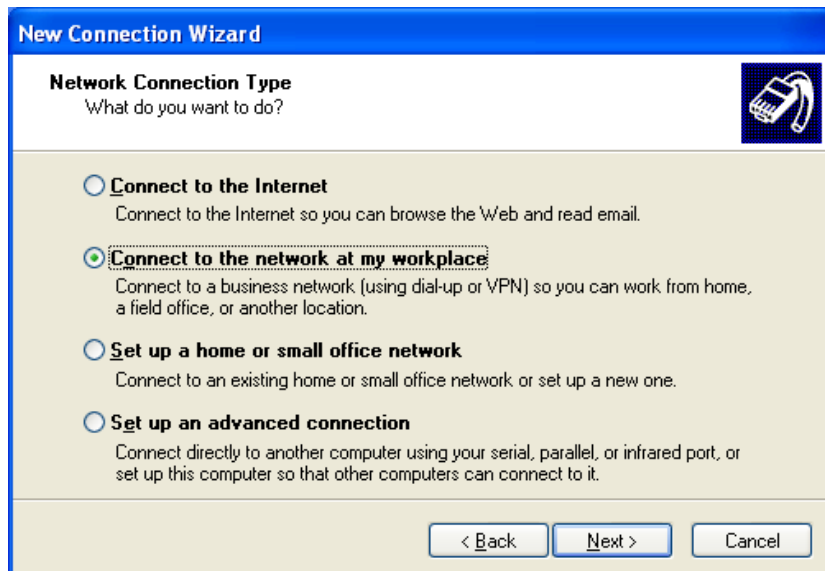
4. CREATE NEW NETWORK CONNECTION

GO TO THE "CREATE A NEW CONNECTION" MENU.

START BUTTON > CONTROL PANEL > NETWORK AND INTERNET CONNECTION > NETWORK

CONNECTIONS > CREATE A NEW CONNECTION

SELECT "CONNECT TO THE NETWORK AT MY WORKPLACE". AND PRESS THE NEXT BUTTON.



The image shows a Windows XP-style dialog box titled "New Connection Wizard". The main heading is "Network Connection Type" with the subtext "What do you want to do?". On the right, there is a small icon of a computer with a network cable. The dialog contains four radio button options:

- ☐ **Connect to the Internet**
Connect to the Internet so you can browse the Web and read email.
- ☒ **Connect to the network at my workplace**
Connect to a business network (using dial-up or VPN) so you can work from home, a field office, or another location.
- ☐ **Set up a home or small office network**
Connect to an existing home or small office network or set up a new one.
- ☐ **Set up an advanced connection**
Connect directly to another computer using your serial, parallel, or infrared port, or set up this computer so that other computers can connect to it.

At the bottom right, there are three buttons: "< Back", "Next >", and "Cancel". The "Next >" button is highlighted with a yellow border.

SELECT "DIAL-UP CONNECTION". AND PRESS THE NEXT BUTTON.



The image shows a second step of the "New Connection Wizard" dialog box. The main heading is "Network Connection" with the subtext "How do you want to connect to the network at your workplace?". On the right, there is a small icon of a computer with a network cable. The dialog contains two radio button options:

- ☒ **Dial-up connection**
Connect using a modem and a regular phone line or an Integrated Services Digital Network (ISDN) phone line.
- ☐ **Virtual Private Network connection**
Connect to the network using a virtual private network (VPN) connection over the Internet.

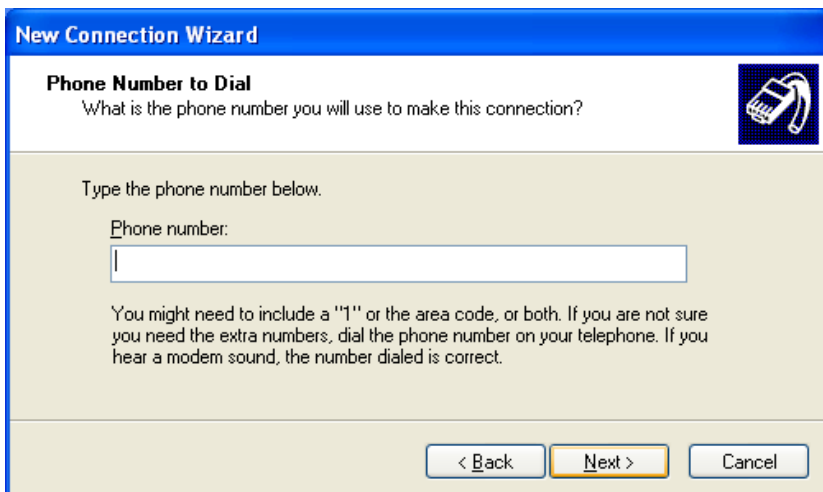
At the bottom right, there are three buttons: "< Back", "Next >", and "Cancel". The "Next >" button is highlighted with a yellow border.

INSERT "COMPANY NAME" AS YOU WANT.
PRESS THE NEXT BUTTON.



The screenshot shows the 'New Connection Wizard' window with the 'Connection Name' step. The title bar is blue with the text 'New Connection Wizard'. Below the title bar, the section is titled 'Connection Name' with a sub-instruction: 'Specify a name for this connection to your workplace.' To the right of this text is a small icon of a mobile phone. The main area has a light beige background and contains the text 'Type a name for this connection in the following box.' followed by 'Company Name' and a text input field. Below the input field, there is a note: 'For example, you could type the name of your workplace or the name of a server you will connect to.' At the bottom right, there are three buttons: '< Back', 'Next >', and 'Cancel'.

INSERT "PHONE NUMBER" LIST IN YOUR INTERNET ACCESS KIT AND PRESS THE NEXT BUTTON.



The screenshot shows the 'New Connection Wizard' window with the 'Phone Number to Dial' step. The title bar is blue with the text 'New Connection Wizard'. Below the title bar, the section is titled 'Phone Number to Dial' with a sub-instruction: 'What is the phone number you will use to make this connection?' To the right of this text is a small icon of a mobile phone. The main area has a light beige background and contains the text 'Type the phone number below.' followed by 'Phone number:' and a text input field. Below the input field, there is a note: '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.' At the bottom right, there are three buttons: '< Back', 'Next >', and 'Cancel'.

YOU CAN SEE A COMPLETING MESSAGE IN NEXT WINDOW.

5. CONNECT INTERNET

GO TO THE "NETWORK CONNECTIONS" MENU.

START BUTTON > CONTROL PANEL > NETWORK AND INTERNET CONNECTION > NETWORK

CONNECTIONS AND CHOOSE THE CONNECTION NAME WHICH WAS CREATED IN THE DIAL-UP CONNECTION.



WHEN YOU WANT THE CSD (DIAL-UP) DATA CONNECTION,

YOU CAN FIND USERNAME, PASSWORD, DIAL NUMBER FROM THE INTERNET ACCESS KIT THAT YOU PURCHASED. AFTER FILLING THOSE VALUES, PRESS THE DIAL BUTTON.

WHEN YOU WANT THE GPRS DATA CONNECTION,

IF YOUR NETWORK SERVICE PROVIDER HAS THE RECOMMEND SETTING OR THE ACCESS PROGRAM, YOU SHOULD USE THAT.

IF NOT, YOU DON'T NEED TO INPUT USERNAME, PASSWORD. JUST INPUT A DIAL NUMBER AS “*99#”. AND PRESS THE DIAL BUTTON.