iPECS

1000i Series IP Phone (LME)

User Guide

Please read this user guide carefully before operating your phone.
Retain it for future reference.

ERICSSON | LG

Revision History

ISSUE	DATE	DESCRIPTION OF CHANGES
1.0	Feb., 2020	Initial Release
1.1	Oct., 2020	Added the 1048ilss model
1.2	Sep., 2021	- Added the 1048idss model - Updated Network configuration - Added VPN configurations - Added Wi-Fi configurations: (1040i/1050i only)
1.3	Oct., 2022	- Added Bluetooth configurations: (1040i/1050i only)

Table of Contents

Regulatory Information

<u>**Important Safety Information**</u>

To prevent unexpected danger or damage please read this information before installing or attempting to repair you phone. Warning and Caution information is provided to alert the consumer of known dangers:

Warning: To reduce the possibility of electric shock, do not expose your phone to high humidity areas, such as a bathroom, swimming area, etc.

⚠ Warning

- Only trained and qualified service personnel should install, replace or service the phone.
- Do not spill liquid water on the phone. If so, disconnect the phone immediately and call the service center as this may result in fire or electric shock.
- If you see or smell smoke during use, disconnect the phone and call the service center immediately.
- If the power adaptor is used, do not touch the plug with wet hands. This may result in a fire, an electric shock or equipment damage.
- Do not use the phone during a thunderstorm. A lightning strike may result in fire, severe electrical or acoustic shock.
- Do not use the power adaptor if the power cord or wall outlet is damaged. This may result in fire or an electric shock.

⚠ Caution

- Ensure that children do not pull on phone cords. This may injure children or result in equipment damage.
- The earpiece houses a magnetic device that may attract pins or small metal objects. Keep the handset clear of such objects and check before use.
- Avoid placing the phone in an area that is excessively dusty, damp or subject to vibration.
- Choose a site for the phone that is well ventilated and dry.
- Do not plug multiple plug-packs into one power outlet. This may result in the plug overheating and may result in a fire or plug pack failure.
- Do not put heavy things on the phone.
- Do not drop or throw the phone.
- Static electricity discharge will damage electronic components.
- Keep out of direct sunlight and away from heat.
- No user-serviceable parts are inside. Do not insert a screwdriver or any metal objects into the phone. This may cause electric shock or damage the equipment and will render the warranty void.
- Clean the phone with a soft, dry cloth only. Do not use volatile liquids such as petrol, alcohol, or acetone as this may cause a fire or result in discoloration or damage to plastics. Do not clean with wax or silicon products as these may enter the equipment and cause operation to become unstable.

[EU] European Union Declarations of Conformity

Ericsson-LG Enterprise Co.,Ltd. declare that the equipment specified in this document bearing the " CE" mark conforms tothe Electromagnetic Compatibility Directive(EMCD,2014/30/EU) and Low Voltage Directive(LVD, 2014/35/EU).

Copies of these Declarations of Conformity (DoCs) can be obtained by contacting your local sales representative.

[USA/CSA] FCC/IC Interference Statement

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 device complies with part 15 /RSS-GEN of the FCC/IC rules. Operation is subject to the following two conditions:

(1)This device may not cause harmful interference; and (2)This device must accept any interference received, including interference that may cause undesired operation.

(1)l'appareil ne doit pas produire de brouillage, et (2)l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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.
- Consult the dealer or an experienced radio/TV technician for help.

This Class B digital apparatus meets the requirements of the Canadian Interference-Causing Equipment Regulations, CAN ICES-3(B)/NMB-3(B)

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

CAUTION : Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

ATTENTION: Tout changement ou modification dans la construction de cet appareil qui ne sont pas expressément approuvé par la partie responsable de la conformité pourraient annuler l'autorité de l'utilisateur à utiliser l'équipement.This Class B digital apparatus complies with Canadian ICES-003.

Disposal of your old appliance

- When the crossed-out wheeled bin symbol is attached to a product, it means the product is covered by the European Directive 2012/19/EU.
- All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by government or the local authorities.
- The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
- For more detailed information about disposal of your old appliance, please contact your city office waste disposal service or the shop where you purchased the product.

Before Use

About this Guide

This guide is intended for users of the 1010i, 1020i, 1030i, 1040i and 1050i iPECS IP phone. The guide provides user-related information.

Introduction of the Document

This guide explains how to install and correctly use 1010i, 1020i, 1030i, 1040i and 1050i phones. Product figures and screen images used in this guide may be changed without notice for quality improvement.

Explanation of Symbol or Word

The following are symbols used in this guide. Information presented with these symbols must be observed for the correct use of your IP phone.

⚠ CAUTION

This mark warns of a situation in which light injury or product damage (hardware, software or data damage) may occur if the instructions are not followed.

NOTE

A note provides additional explanation, emphasis on important information or reference for related information, which is required for the correct use of the phone.

1   Introduction

1.1   General

Your telephone is connected to an advanced-technology, highly versatile, fully featured telecom system designed to make office communications easy and productive.

Employing state-of-the-art Voice over Internet Protocol (VoIP) technology, voice and data converge on a single IP packet network. Because each iPECS Phone is an IP appliance, it can be moved easily throughout the office wherever there is a LAN connection and maintain normal operation.

1.2   Feature Information

We have taken every effort to make this user guide simple and straightforward. The guide starts with the simpler operations of the iPECS Phone Speakerphone, moves on to receiving and placing calls, and then to more advanced features. Each section includes a brief and basic description of each feature and step-by-step operation instructions.

The operations shown in this guide use the System's base default Numbering Plan. Your specific Numbering Plan may be different. Some features may not be available for you to access or may be subject to certain limitations based on the set-up of the System. Please consult with your System Administrator for further information.

<u>NOTE</u>
Under certain operating conditions, this equipment may not be able to make emergency calls. Alternative arrangements should be made for access to emergency services.

1.3   Feature Groupings

Every effort has been taken to divide the features into a logical and consistent sequence so that features can be quickly located.

Features have been divided into groups, Receiving Calls, Placing Calls, etc. Within each group, features are arranged according to the difficulty of operation and frequency of use.

1.4 iPECS 1000i Phone Description

The iPECS 1000i series phones incorporate the latest in VoIP technology and user interface to provide a cost-effective, simple to use, productive communications tool.

Each 1000i phone includes an LCD, fixed and flexible buttons with LEDs, Navigation keys, and full-duplex speakerphone. As shown in the layouts that follow the size of the LCD, number of flexible buttons and softkeys varies for each model. Refer to section "Appendix B: 1000i Series Models Specification " for details.

- The 1010i includes a 4-line 132 by 64 dot graphic LCD, 4 flexible buttons and 3 softkeys.
- The 1020i includes a 4-line 132 by 64 dot graphic LCD, 8 flexible buttons and 3 softkeys.
- The 1030i includes a 5-line 320 by 240 dot graphic LCD, 6 flexible buttons and 3 softkeys.
- The 1040i includes a 6-line 480 by 320 dot graphic LCD, 8 flexible buttons and 3 softkeys.
- The 1050i includes an 8-line 480 by 272 dot graphic LCD, 12 flexible buttons and 3 softkeys.

Note

Features and functions of your iPECS are accessed using the Fixed or Flexible buttons, Softkeys or dial codes entered from the dial pad.

1.4.1 Phone Layout and Functions

1.4.1.1 Phone Layout

The figures below present line drawings of the front of each 1000i series phone identifying major elements of the user interface. As shown, the layouts of the 1010i, 1020i, 1030i, 1040i and 1050i are slightly different.

1010i Layout
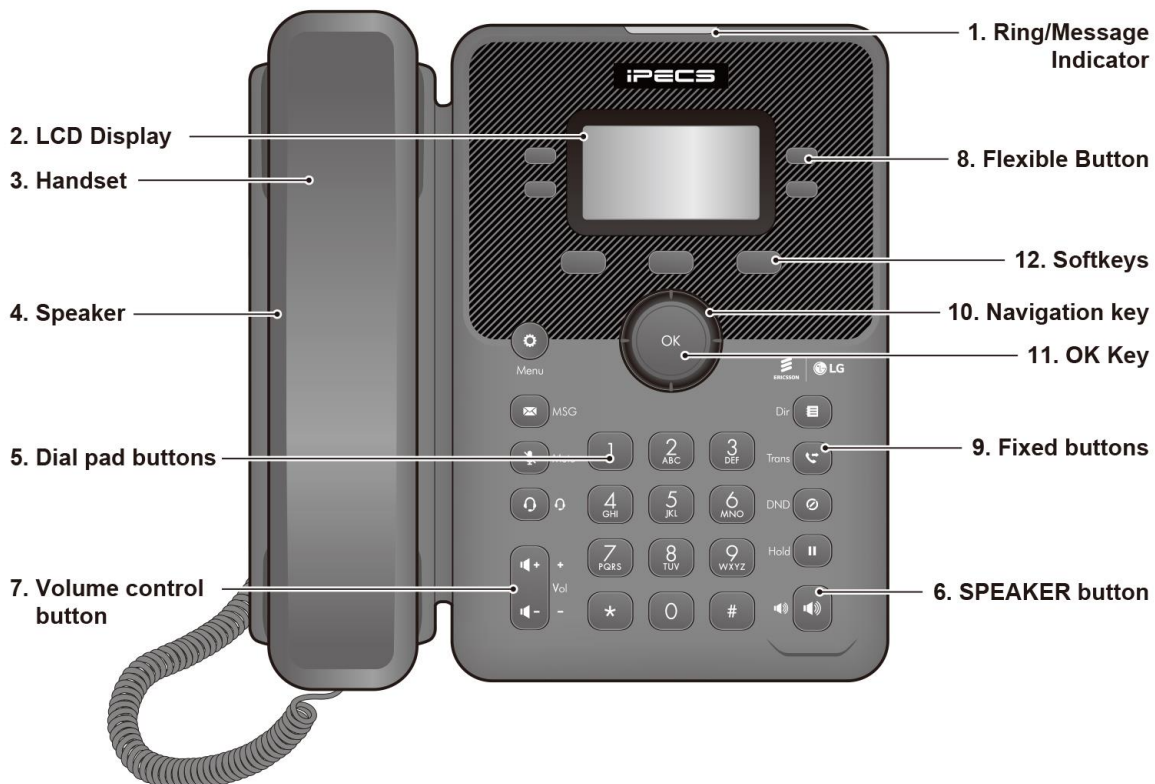
Figure 1.4.1-1: 1010i Front

1020i Layout

1. Ring/Message Indicator

2. LCD Display

8. Flexible Buttons

3. Handset

12. Softkeys

10. Navigation key

4. Speaker

11. OK Key

8. Flexible Buttons

5. Dial pad buttons

9. Fixed buttons

7. Volume control button

6. SPEAKER button
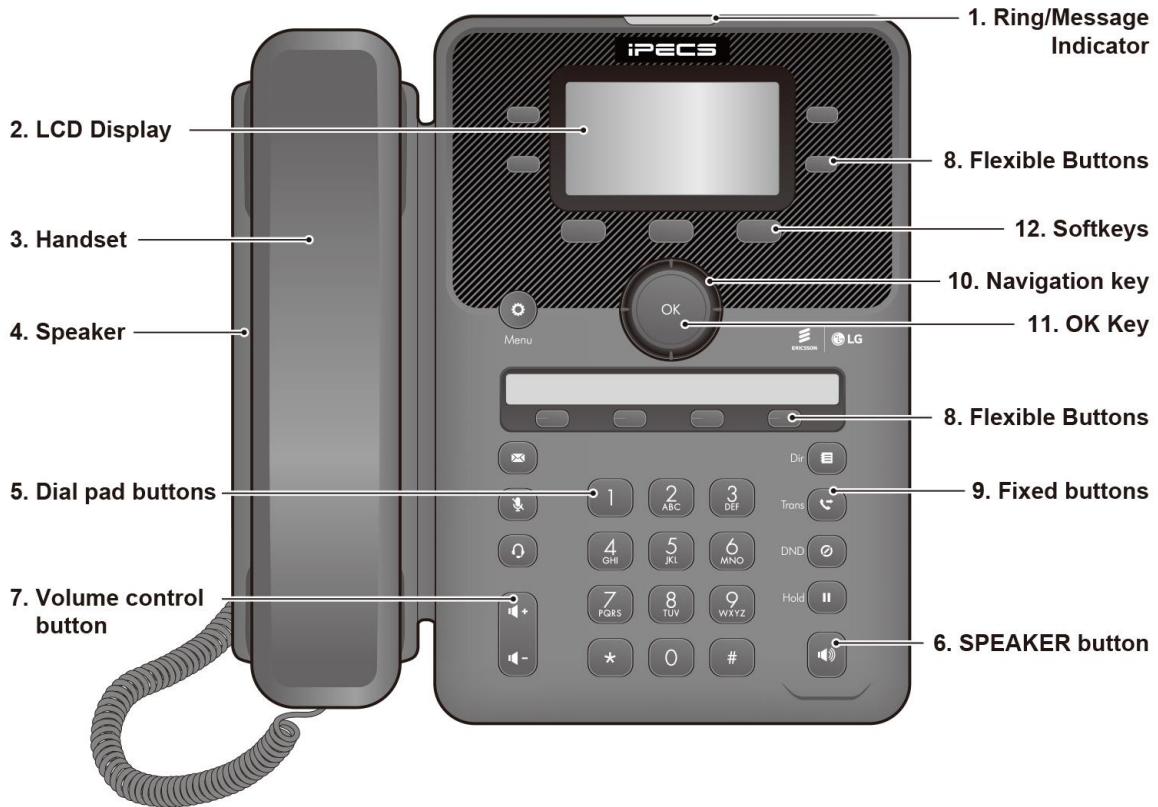
Figure 1.4.1-2: 1020i Front

1030i Layout

1. Ring/Message Indicator

2. LCD Display

8. Flexible Buttons

3. Handset

12. Softkeys

4. Speaker

10. Navigation key

11. OK Key

5. Dial pad buttons

9. Fixed buttons

7. Volume control button

6. SPEAKER button
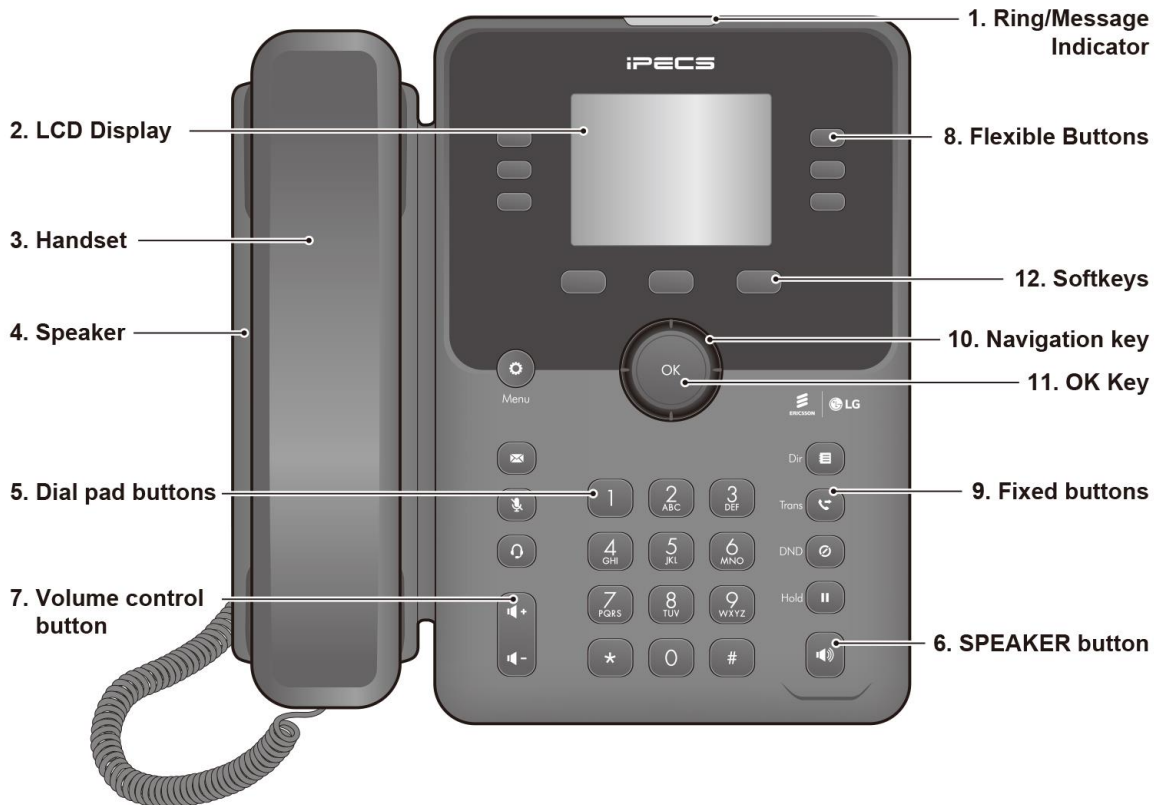
Figure 1.4.1-3: 1030i Front

1040i Layout

1. Ring/Message Indicator
2. LCD Display
8. Flexible Buttons
3. Handset
12. Softkeys
4. Speaker
10. Navigation key
11. OK Key
5. Dial pad buttons
9. Fixed buttons
7. Volume control button
6. SPEAKER button

Figure 1.4.1-4: 1040i Front

1050i Layout

1. Ring/Message Indicator
2. LCD Display
8. Flexible Buttons
3. Handset
12. Softkeys
4. Speaker
10. Navigation key
11. OK Key
5. Dial pad buttons
9. Fixed buttons
7. Volume control button
6. SPEAKER button
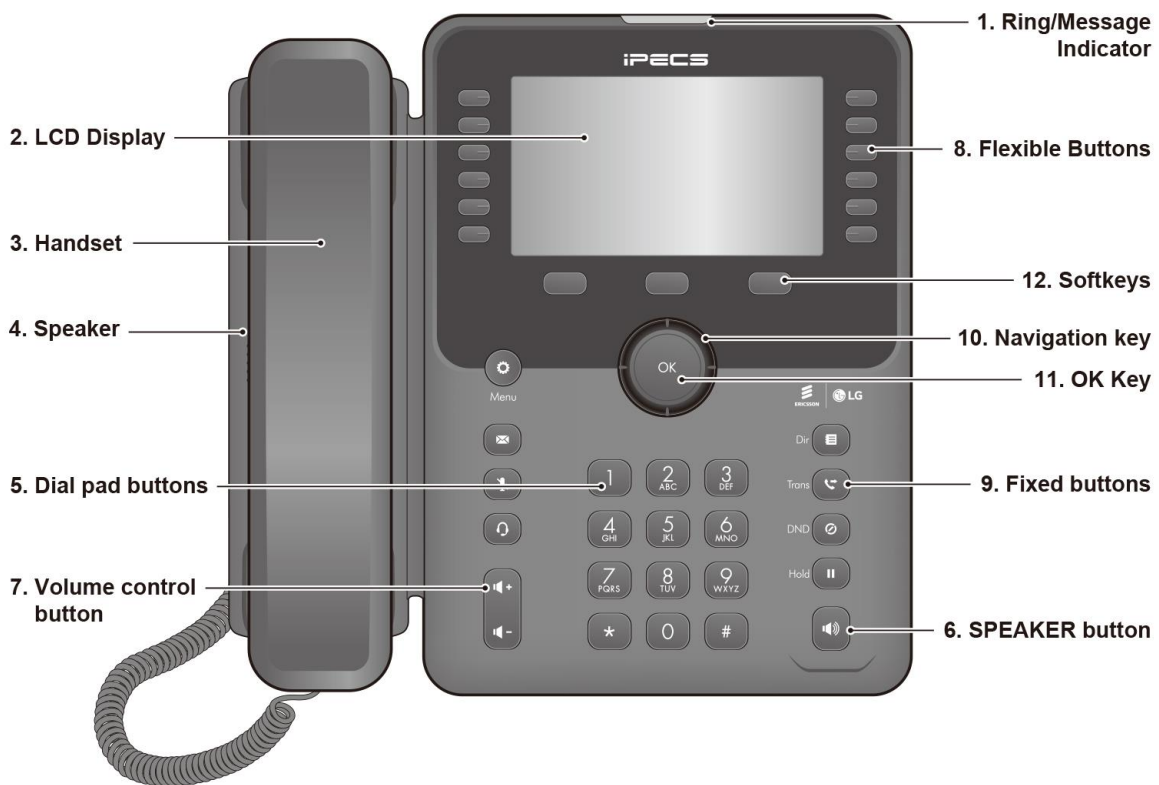
Figure 1.4.1-5: 1050i Front

1.4.1.2   Functions

Below is a brief description of the elements called in the 1000i series phone diagram above.

1. **Ring/Message Indicator:** Flashes when receiving a new call or you have a new message waiting.
2. **LCD Display:** Displays your phones status, dialing directories, and text message information.
3. **Handset:** Use to answer a call using the handset.
4. **Speaker:** Delivers ringing and other signals, and lets you hear the caller's voice in Speakerphone mode.
5. **Dial pad buttons:** Use to dial a number, select a menu item, or input a value.
6. **Speakerphone button:** Toggles the IP phone Speakerphone on and off. The button illuminates when the Speakerphone is active, or the phone is in menu mode (Except 1010i).
7. **Volume control button:** Use to adjust Ring, Headset, Handset, and Speaker volume.
8. **Flexible buttons:** Assigned as Line or feature access button.
   - 1010i has 4-flexible buttons.
   - 1020i has 4-flexible buttons with 3 pages and 4 flexible buttons with a paper label, total 16 buttons.
   - 1030i has 6-flexible buttons with 3 pages, total 18 buttons.
   - 1040i has 8-flexible buttons with 3 pages, total 24 buttons.
   - 1050i has 12-flexible buttons with 3 pages, total 36 buttons.

9. **Fixed buttons**
   - Menu (⚙) button: Accesses the menu for display and changes to the IP Phone configuration.
   - Transfer (↝) button: Transfers the current active call. The button switches the dial pad input mode (A, a, * or 1). The dial pad mode displays in the upper-right corner.
   - Directory (▤) button: Accesses your private or public directory for speed dialing.
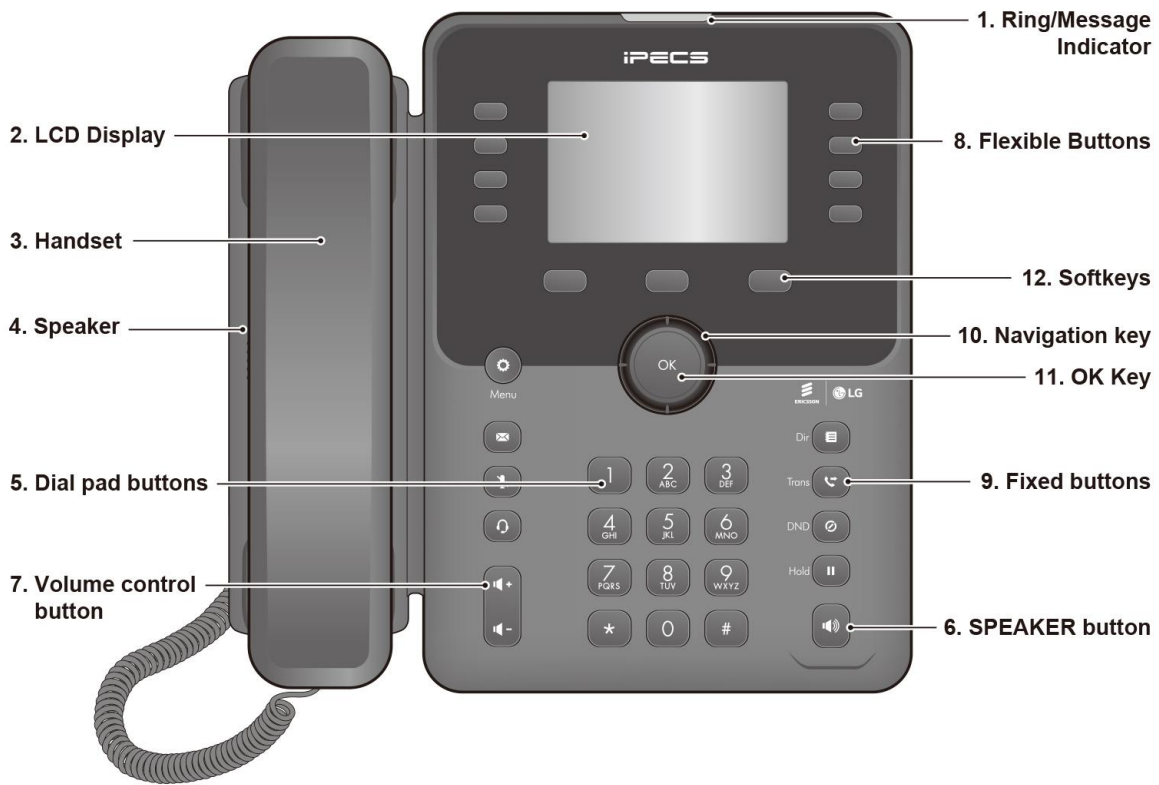   - Message (✉) button: When the MWI LED indicates you have a message, use to access your Voice Mailbox.
   - DND (⊘) button: Use to activate DND (Do Not Disturb) so that your phone will not ring. The button also deletes the last character of an input in the menu mode.
   - Headset (⌒) button: When using a headset, this button toggles the headset state. When the headset is active, the button LED illuminates red and the Headset Icon will be displayed for 1010i.
   - Hold (‖) button: Use to place a call on Hold. Also, use to access a held call. In menu mode, it saves your inputs.
   - MUTE (⦸) button: Toggles audio from the microphone to the connected party on and off.

10. **Navigation key**
    - Left: Use to move the previous group of softkey.
    - Right: Use to move the next group of softkey.
    - Up: Scrolls through the phone's menu options upward.
    - Down: Scrolls through the phone's menu options downward.

11. **OK Key:** Selects the highlighted choice when navigating through a menu. In 1030i, 1040i and 1050i, during a call, Pop-up display and call information can be toggled using "OK" button. Pop-up disappear and call information display in the top bar.
12. **Softkeys**: Softkeys are interactive, changing function based on the status of the phone.

1.5   1000i Installation

The 1000i Phones are shipped with the 1000i Phone, handset and coil cord, adjustable foot-stand, 1.5-meter (~5-foot) Cat 5 cable terminated in RJ-45 connectors, and the Quick Guide.

An optional AC/DC adaptor is available for use when the network connection does not provide power to the phone (support IEEE 802.3af PoE -Power over Ethernet-).

Several other options including DSS(Refer to section "1.6 **DSS Overview & Installation**")and wall mounting(Refer to section "1.7 **Wall Mount Installation**") are available.

The phone has a number of connections available including the handset and LAN connection, which are required. Connections to your desktop PC, headset and optional power adaptor are incorporated in the phone design.

To install the phone;
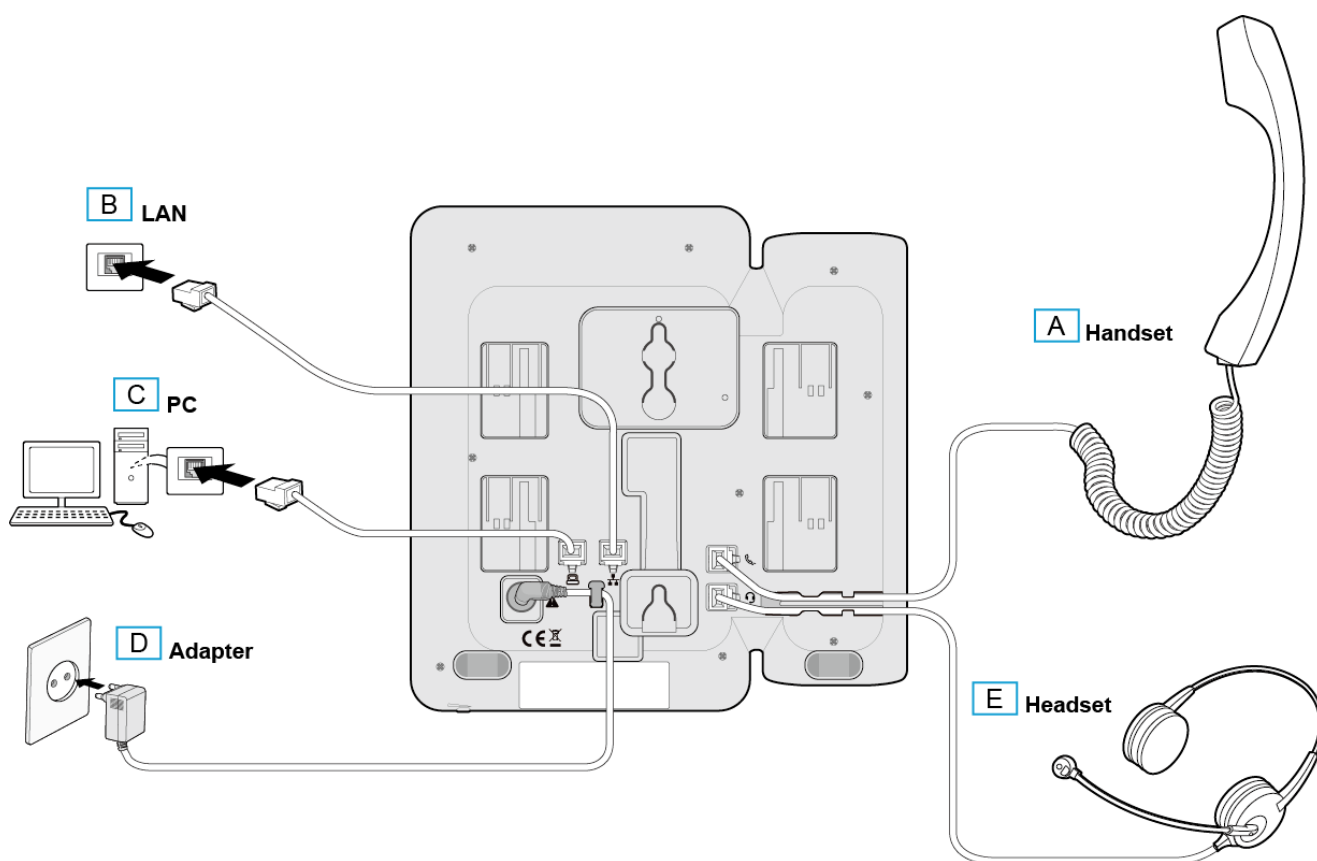
Figure 1.5: 1000i Installation

1) If needed install the DSS assembly as described at the" **1.6** DSS Overview & Installation" section.

2) Insert the connectors of the coil cord into the handset and phone handset port as shown in A.

3) Insert the provided Cat 5 cable into the network connection of the phone and the LAN wall jack as shown in B.

4) When needed, your desktop PC can be connected to the PC LAN port of the phone. Connect a Cat 5 cable (not provided) between the PC's LAN port and the PC LAN port of the 1000i phone as shown in C.

5) If your LAN port does not support Power over Ethernet (PoE), you must install the optional AC Power adaptor. Note do not connect the power adaptor if your port does support PoE. Connect the DC output of the adaptor into the phone and the AC plug into a standard AC power outlet as shown in D. Consult with your system administrator to determine if you must install the AC power adaptor. You may need to contact your local ELG-Enterprise representative for the appropriate power adaptor for your region.

⚠️ **Caution**

- To power your phone, use either PoE or the AC adaptor, not both.
- Use the Ericsson-LG Enterprise approved AC power adaptor only. The AC adaptor is ordered separately.

6) A compatible headset may be connected to the Headset jack in the bottom of the phone. As shown in E, connect the headset plug into the headset jack. The 1000i phones are compatible with several headsets. Please consult with your local Ericsson LG-Enterprise representative for a list of headsets compatible with the 1000i.
The 1040i/1050i supports USB Headset. If a USB Headset is plugged in, the Headset function operates as a USB Headset.
NOTE: If you plug in or unplug the USB Headset during a call, it will operate from the next call.

7) The phone includes a foot stand that can be installed to provide a 35° or 50° angle of the face of the phone. If the phone is not wall mounted, install the foot stand at the desired angle. If wall mounting, do not install the foot stand.

NOTE

Once installation is complete, the phone may require configuration of the network parameters before becoming operational. These parameters should be modified by a trained technician only.

1.5.1 Global Provisioning

If you turn on the phone, it will show a "Global Provisioning" menu. You don't need to use the Global Provisioning in the LME, so you should skip this menu.

1) Press the "NO" soft key when the below is shown.

```
Global Provisioning



YES                    NO
```

2) If you press the "YES" soft key by mistake from the above screen, then press the "CANCEL" soft key from the first screen and press the "EXIT" soft key from the second screen.

```
DHCP SEARCHING…



CANCEL
```

```
IP Address



DELETE     EXIT     DHCP
```

1.6   DSS Overview & Installation

1.6.1   1024idss overview

The 1024idss provides the 24 additional flexible buttons. The flexible buttons on the DSS are used as with the flexible buttons on the phone proper and can be assigned for any of the flexible button functions. One 1024idss can attach to an 1020i, 1030i ,1040i or 1050i phone, and can be placed on your desktop or can be wall-mounted with the phone.

The 1024idss is described as follows and shown in below figure.

- The 1024idss has 24 flexible buttons with tri-color LED. The 1024idss uses a paper label for the button designations.
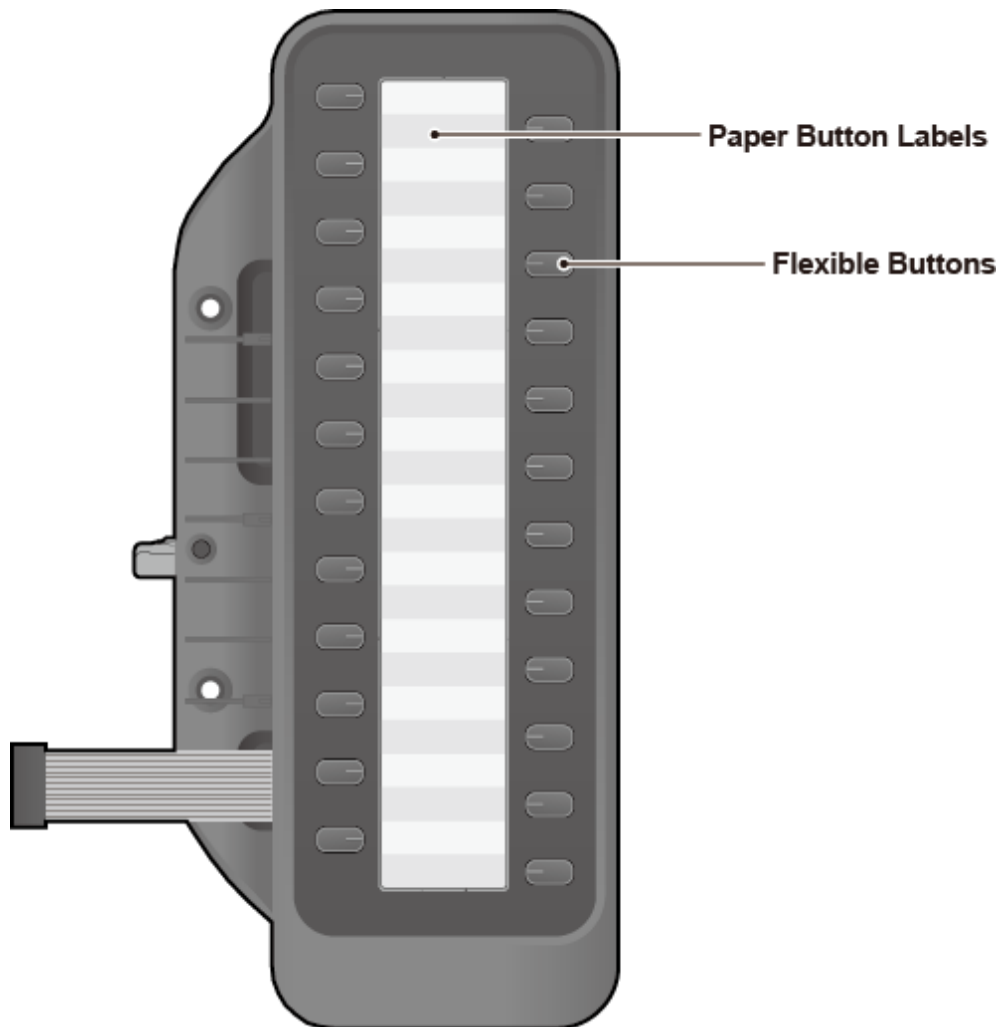
Figure 1.6-1: 1024idss

⚠ **Caution**

To avoid damaging the Phone or DSS, remove power from the phone before installing a DSS.

1.6.2 1048ilss overview

The 1048ilss provides the 2x24 flexible buttons that can be programmed to connect with an IP phone. You can connect up to three 1048ilss to the phone. (except the 1010i), and can be placed on your desktop or can be wall-mounted with the phone.

NOTE

The iPKTS phone can connect up to three 1048ilss, but the 1048ilss cannot be used with 1024idss or 1048idss.

The 1048ilss is described as follows and shown in below figure.

- The 1048ilss provides the 2x24 flexible buttons with tri-color LED

Page Button   Flexible Buttons   Class Switch
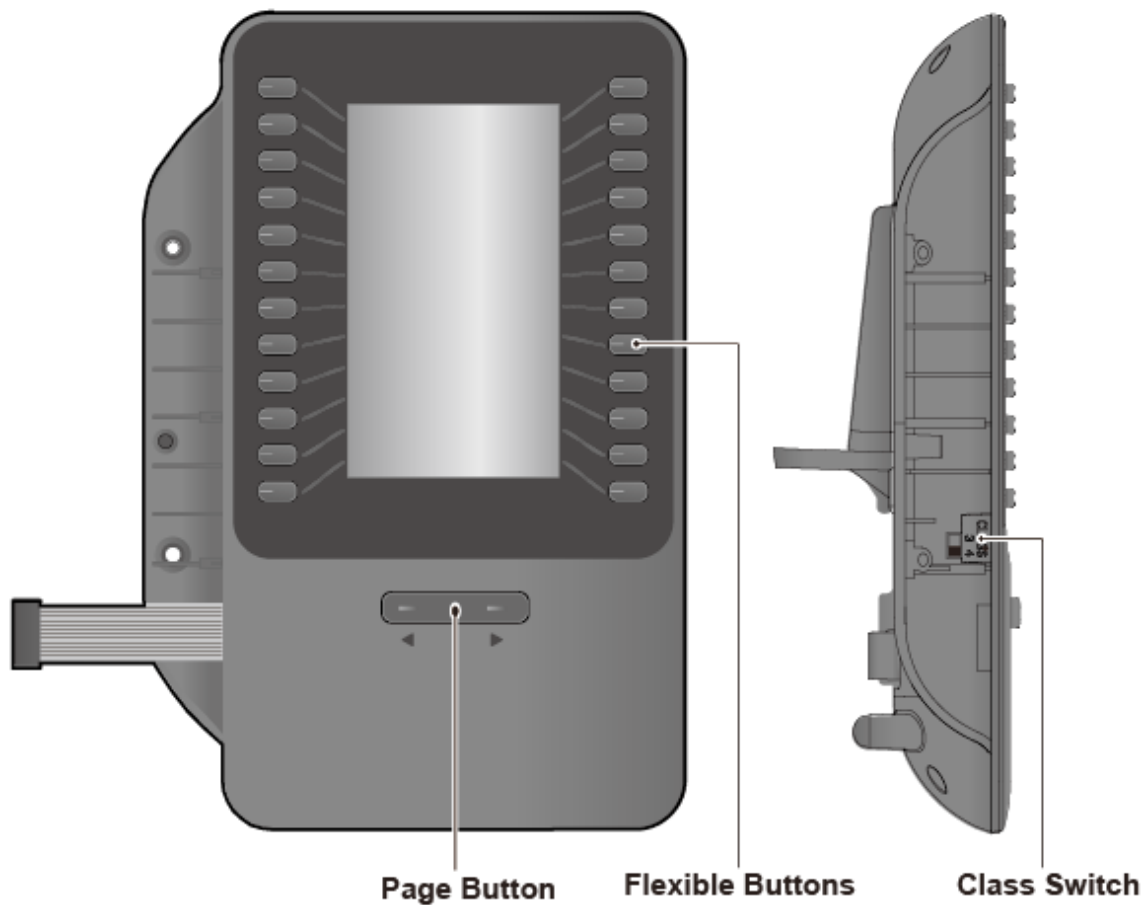
Figure 1.6-2: 1048ilss

⚠️ **Caution**

Disconnect the power cable or remove the network cable to ensure that your phone is Off. Only a peripheral device can be connected to the AEM port. (1048ilss or EHSA)

USB Charging from the Phone

When charging using the phone's USB port, be sure to connect the Adaptor to the phone.(1040i,1050i only)

1.6.3 1048idss overview

The 1048idss provides 48 flexible buttons that can be programmed to connect with an IP phone. You can connect up to four 1048idss to the phone(except the 1010i), and can be placed on your desktop or wall-mounted with the phone.

NOTE

The iPKTS phone can connect up to four 1048idss, but the 1048idss cannot use with 1024idss or 1048ilss.

The 1048idss is described as follows and shown in the below figure.

- 1048idss: 48 flexible buttons with tri-color LED
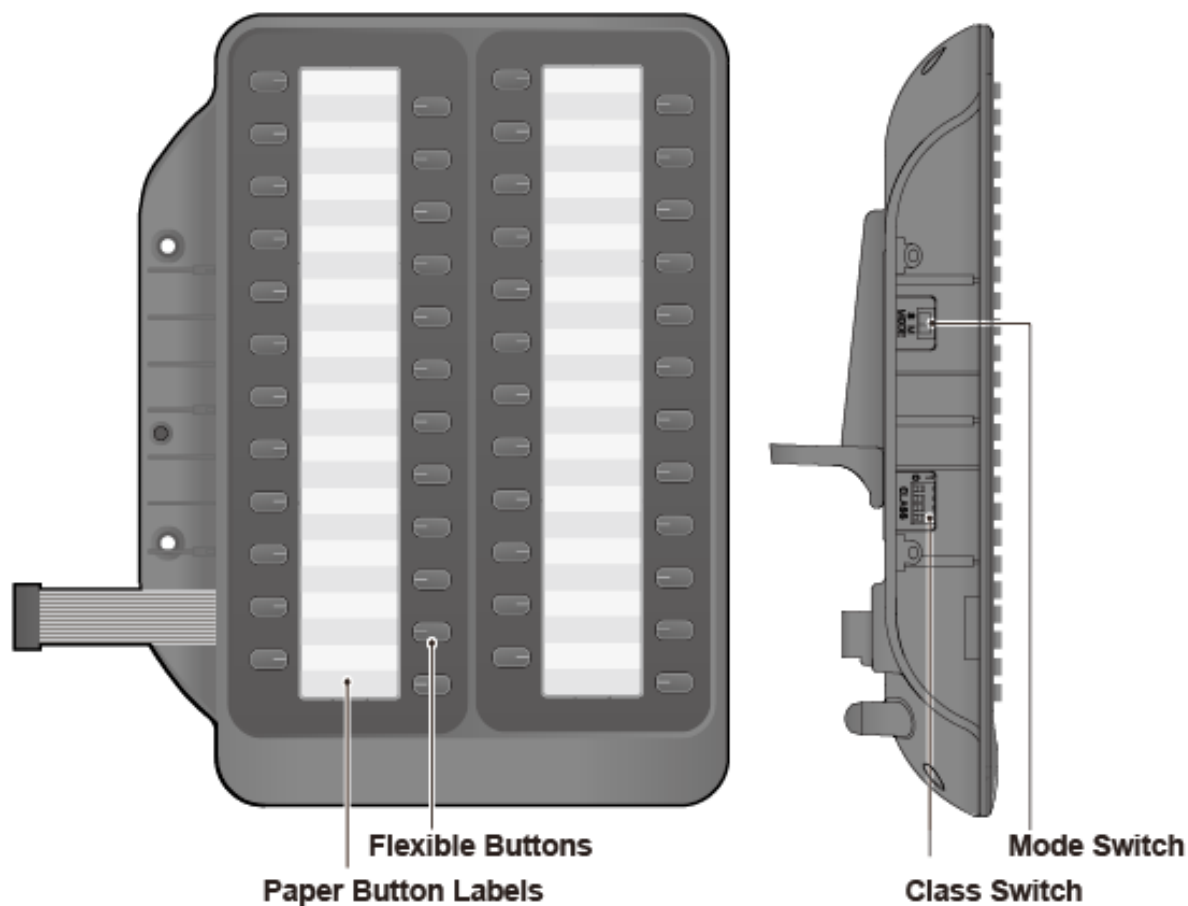
Figure 1.6-3 1048idss

<u>Caution</u>

Disconnect the power cable or remove the network cable to ensure that your phone is Off. Only a peripheral device can connect to the AEM port. (1048idss or EHSA)

<u>USB Charging from the Phone</u>

When charging using the phone's USB port, be sure to connect the Adaptor to the phone. (1040i,1050i only)

1.6.4 DSS Installation

The DSS should be installed on the phone prior to making any connections to the phone. This simplifies the installation for 1030i Phone and 1024idss. You can install the 1048ilss,1048idss in the same way.

For more detailed installation instructions, Scan the QR code that is printed on the product label of 1024idss or 1048ilss,1048idss to refer to a Quick installation Guide.

To install the DSS

1) First, assure the phone is NOT connected to power. For convenience, you may wish to remove the handset and foot-stand; this simplifies the DSS installation.

2) Align the DSS and phone as shown in the drawing.

3) Connect the DSS Connecting Cable to the phone.

4) Push the DSS into the phone until the DSS is fully engaged.

5) Insert the screws provided through the screw tabs in the DSS and tighten the screws into the phone. Do not over-tighten.

DSS Connecting Cable
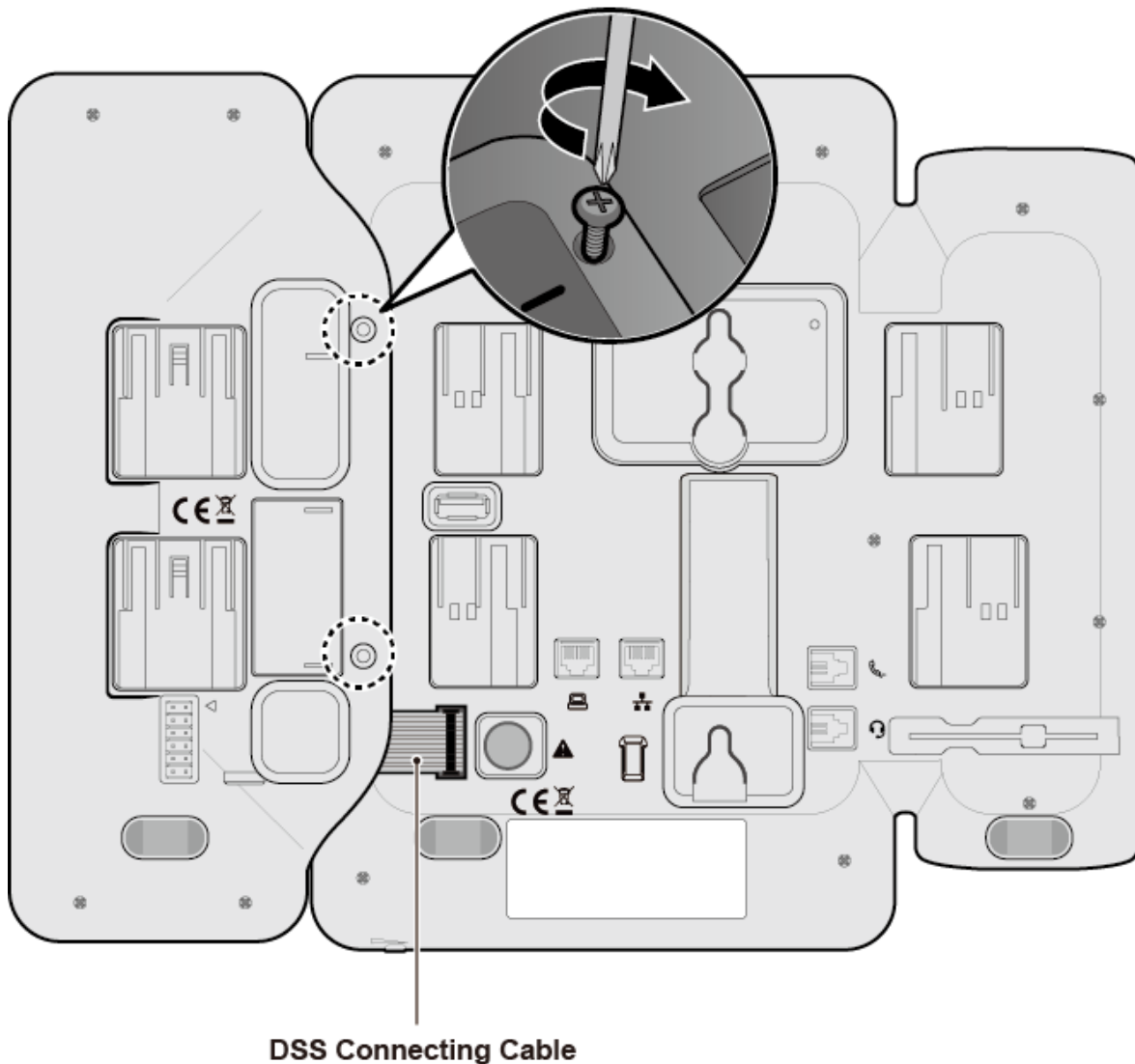
Figure 1.6-4: 1024idss Installation

1.7   Wall Mount Installation

The following instructions describe the wall mount installation. Note the foot-stand must not be installed.
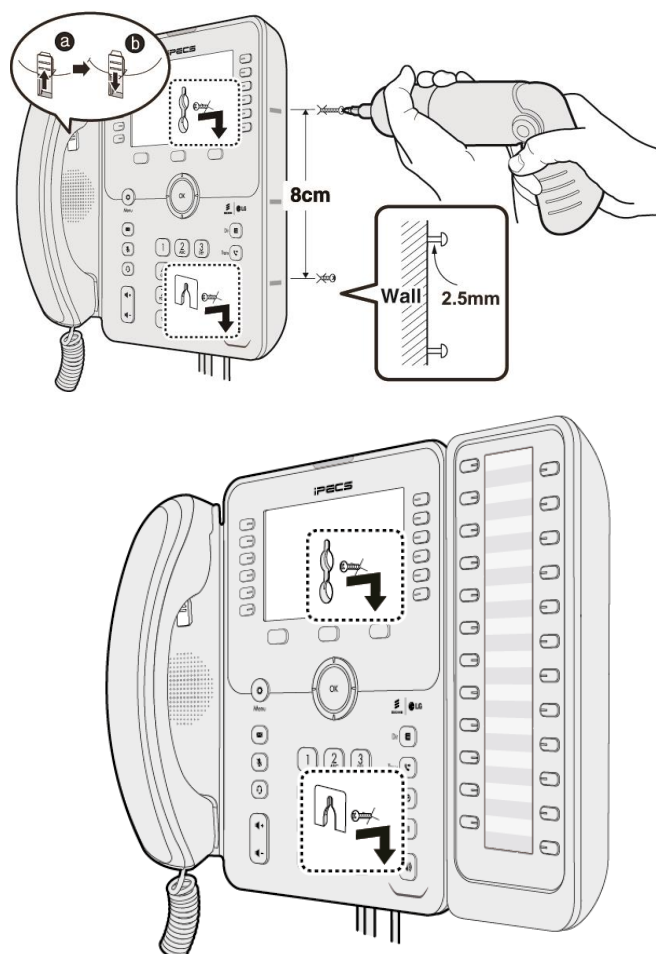
Figure 1.7: Wall Mount

1) If installed, remove the foot-stand from the Phone and DSS.

2) Connect all wiring to the Phone as described in "**1.5** 1000i Installation" section. Connect the Phone side wiring only.

3) If required, install DSS as described in "**1.6** DSS Overview & Installation" section.

4) Mark and drill two 7mm holes for plastic wall anchors (not included).

5) Insert the two anchors into the holes and insert and tighten the two screws (not included) leaving about 2.5 mm (1/8-inch) exposed.

6) Align the key holes in the phone over the screws and slide the phone down assuring the phone is secure.

7) Remove, reverse and re-install the handset hook so that the hook catches the groove in the handset receiver.

8) Hang the handset up on the handset hook.

9) Complete all wiring connections as described in "**1.5** 1000i Installation" section.

<u>**NOTE:**</u>

It may be necessary to remove the phone and tighten or loosen the screws for a secure mounting.

1.8   EHS Adaptor

Electronic Hook Switch (EHS) Adaptor is a device which electronically connects a EHS Base Set and Ericsson-LG Enterprise phone.

This EHS Adaptor enables remote control with the compatible EHS Base Set and the 1000i Series (except 1010i).

Compatible EHS Base Set Model List

Below are the recommended EHS Base Set models for your phone. For further information on installation see the EHS Adaptor Quick Installation Guide which is packed with it.

- Jabra (IQ Protocol): PRO P20, PRO 925, PRO 9450
- Plantronics (PSB Protocol): Savi W720, Savi W740-M, CS540
- Sennheiser (DHSG Protocol): D10, DW Pro

NOTE

Ericsson-LG Enterprise cannot guarantee other model except the above list and this list will be updated if we have finished testing the new one anytime.

1.9   Wi-Fi dongle

The 1040i and 1050i have a USB port so you can connect to a wireless network using a Wi-Fi dongle and provides LCD or Web menu for Wi-Fi setting.

The Wi-Fi setting menu is only displayed when the Wi-Fi dongle is installed, so you must first plug the dongle into the USB port on the back of the phone. In the LCD menu, setting is possible even if there is only an AP that can be connected.

All network and server settings except "Wi-Fi Settings" related to Wi-Fi connection use the wired network settings together. For detailed "Wi-Fi settings", Please scan the below QR code or refer to the **"1000i IPKTS Wi-Fi Setting Guide"** document.

Also you can download it from global partner portal. If you have no authority to access global partner portal, then please contact to your local supplier.

1000i Wi-Fi Setting Guide

Supported models and version
- 1040i and 1050i (Version R1.2.0 or later)

Compatible Wi-Fi dongle Lists
- **TP-LINK Archer T3U** (AC1300 Mini Wireless MU-MIMO USB Adapter, Ver:1.0)
- **TP-LINK Archer T4U** (AC1300 Wireless Dual Band USB Adapter, Ver:3.0)
- **D-Link DWA-182** (Wireless AC1300 MU-MIMO Wi-Fi USB Adapter, Revision D)

1.10 Phone Entering Text

Several features available to your phone require text entry. Station and Speed dial name assignment, and Intercom Text Messaging all require character entry. Characters are entered by pressing the dial pad digit with the character multiple times based on the character position on the button.

For example;The letter 'C' is the third letter on the digit '2' thus, to enter a 'C', the dial pad digit '2' would be pressed 3 times.

If you want to enter the 'C' consecutively, wait a second to be moved the cursor to the right side of 'C' or press the right key of the navigation if it has navigation keys.

You can enter upper or lower case letters, symbols, or numeric characters. The entry mode is controlled with the TRANSFER button.

The entry mode is indicated in the LCD of your phone as A, a, * or 1.

- The DND button deletes the last character. Or you may use the DELETE Softkey.
- The TRANSFER button changes the input mode (A, a, * or 1).

The chart below maps each dial pad digit to the corresponding character, symbol, and numeric entry.

NOTE

1000i series phone's Character Entry Chart (D1: 1st Digit, D2: 2nd Digit, D3: 3rd Digit, D4: 4th Digit)

Table 1.10: Phone Entering Text

Dial Pad Digit	Entry Mode			
	Upper Case ⌐A⌐	Lower Case ⌐a⌐	Symbols ⌐✻⌐	Numeric ⌐1⌐
	Button Depressions			
	D1, D2, D3, D4	D1, D2, D3, D4	D1, D2, D3, D4	D1
1	@ : /	@ : /	@ : /	1
2	A B C	a b c	| $ %	2
3	D E F	d e f	^ & _	3
4	G H I	g h i	( ) ?	4
5	J K L	j k l	- + /	5
6	M N O	M n o	< > =	6
7	P Q R S	p q r s	; :	7
8	T U V	t u v	' " `	8
9	W X Y Z	w x y z	{ }	9
0	. , ? !	. , ? !	. , ? !	0
*	. *	. *	. *	*
#	Space (' ')	Space (' ')	# [ ]	

1.11 Bluetooth dongle

The 1040i and 1050i have a USB port, so you can connect to a Bluetooth headset using a BT dongle, providing an LCD menu for Bluetooth settings.

The LCD menu is only shown when a Bluetooth dongle is installed, so you must first plug the dongle into the USB port on the back of the phone.

Adding/deleting/managing Bluetooth headsets is possible only with the phone menu without a system setting, but headset mode must be set in the system menu to use Bluetooth.

To be able to answer an incoming ring with a button on the headset, the Bluetooth headset always operates the ring regardless of the headset ring mode.

Because the 1000i only supports the Bluetooth headset profile (HSP), you can only (1) answer an incoming ring or (2) end a call with the button on the headset.

For detailed "Bluetooth settings", Please scan the below QR code or refer to the **"1000i IPKTS Bluetooth Setting Guide"** document. Also you can download it from global partner portal. If you have no authority to access global partner portal, then please contact to your local supplier.

1000i Bluetooth Setting Guide

Supported models and version
- 1040i and 1050i (Version R1.3.1 or later)

Compatible Lists
- **Bluetooth USB Adapters**: Only Bluetooth 4.0 adapters with CSR chipsets are compatible.
  - ASUS USB-BT400 USB Adapter (Bluetooth 4.0 USB Adapter)
  - TP-LINK UB400 (Bluetooth 4.0)
  - UGREEN USB Bluetooth 4.0 Adapter (Chip model: CSR8510)
- **Bluetooth Headsets**
  - Plantronics PLT E100 Series
  - Jabra STEEL a1.17.0
  - Jabra Evolve 75e

NOTE

Ericsson-LG Enterprise cannot guarantee other models except the above list, and this list will be updated if we have finished testing the new one.

The Bluetooth and Wi-Fi dongle cannot be used together; only one must be connected to the USB port.

2 Using the LCD & Speakerphone

2.1 Using the LCD

Each 1000i model has a different display. The top line of each display shows various icons as shown in the Icons chart below.

The 1010i and 1020i have a 4-line display. The top section, which consists of a single line, displays the station number, various icons and time.

The 1020i has flexible button page number. The middle section displays the label for each flexible button. The fourth line displays the interactive softkey menu to guide you through feature access and User Program selections. The display indicates the function for each softkey based on the status of your phone. In some cases, there may be more than three available softkey functions. In this case, a right arrow displays on the right side of the menu line. The right Navigation key scrolls to the next set of three functions, and the left key moves to the previous menu choices.

The 1030i, 1040i and 1050i have a 5-line, 6-line and 8-line Liquid Crystal Display (LCD), respectively. The top section, which consists of a single line, displays the station number, various icons, time and flexible button page number. The middle section displays the label for each flexible button or a monthly calendar displays by the OK key. This section of the display also provides the called or calling name or number display, feature status, etc. The lower section, which consists of a single line, is the interactive menu of three softkeys described in the previous paragraph.

The 1030i, 1040i and 1050i have a screen saver function. The screen saver has two kind modes, Clock or LCD-Off. If not used, the screen saver will be activated after 10 minutes. This value or mode can be changed on the web manager or LCD menu.

2.1.1 1000i Series Phone Displays

Below is a figure of Display layout of each 1000i phone.

1010i Phone Display
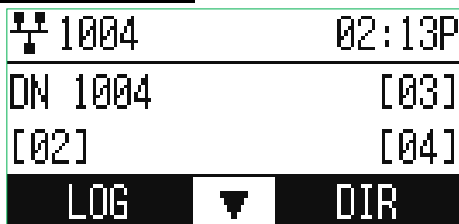
1020i Phone Display

1030i Phone Display

```
1006                    02:20 pm

 DN 1006                      [04]

 [02]                         [05]

 [03]                         [06]

     LOG         DIR       REDIAL ▶
```

1040i Phone Display

```
1002                      08:00

 DN 1002                      [05]

 [02]                         [06]

 [03]                         [07]

 [04]                         [08]

     LOG         DIR       REDIAL ▶
```

1050i Phone Display

```
1003                    12:00 am

 DN 1003                      [07]
 [02]                         [08]
 [03]                         [09]
 [04]                         [10]
 [05]                         [11]
 [06]                         [12]
     LOG         DIR       REDIAL ▶
```
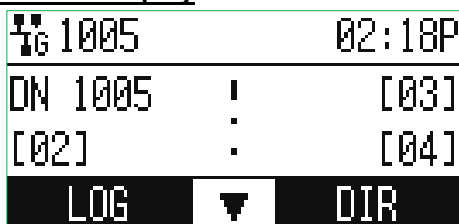
2.1.2   Upper line and Flexible button icons

Below is a list of icons and their meaning.

Table 2.1.2-1: 1010i, 1020i Icons Description

Icon	Description
🔇	The MUTE icon indicates the microphone is On and Off. (1010i only)
🎧	The Headset icon indicates headset state, when shown the headset is active. (1010i only)
🕐	The Wake-Up icon indicates one or more alarms are saved.
🖧	LAN icon indicates the status of the LAN connection to the IP Phone. If the network speed is connected to Gigabit, the Giga-Icon (🖧) will be displayed. (1020i only)
✕	Missed call icon, indicates one or more missed calls.
📞	Call icon indicates call information during a call.
🔒	The SRTP icon indicates SRTP call.
🎧	EHS icon is displayed when EHSA is installed. If there is an error between EHSA and EHS headset, it will be changed to the EHS OFF icon (🚫) (1020i only).
▼	This icon is used to move another softkey menu.
✓	This icon is used to select or save the current menu.

Table 2.1.2-2: 1030i, 1040i, 1050i Icons Description

Icon	Description
🖧	LAN icon indicates the status of the LAN connection to the IP Phone. If the network speed is connected with Gigabit, the Giga-Icon (🖧) will be displayed.
✕	Missed call icon, indicates one or more missed calls.
📞	Call icon indicates call information during a call.
🔒	The SRTP icon indicates SRTP call.
🕐	Wake Up icon indicates one or more alarms are saved.
🎧	EHS icon is displayed when EHSA is installed. If there is an error between EHSA and EHS headset, it will be changed to the EHS OFF icon (🚫).

Table 2.1.2-3: 1040i, 1050i Wi-Fi Icons Description

Icon	Description
	The wireless connection status and signal strength are displayed on the top bar of the screen. (Very Poor[▄] / Poor / Fair / Good / Excellent[📶])
	Indicates that the wireless is disconnected when using a wireless connection.
🔒	It is displayed when the Secured AP is displayed in the list.
🔖	Appears when already Saved APs are displayed in the list.
	Appears when the currently connected AP is displayed in the list.
.ıll	Indicates the Signal Strength of APs shown in the list.
2.4/5	Indicates the wireless band of the APs shown in the list. (2.4G : 2.4G only, 5G :5G only, 2.4/5 : 2.4G/5G Both)

Table 2.1.2-4: 1040i, 1050i Bluetooth Icons Description

Icon	Description
❄	Indicates that Bluetooth is enabled, but no headset is connected.
❄	Indicates that the Bluetooth headset is connected and available.
🔖	Appears when already Saved BT headset are displayed in the list.
	Appears when the currently connected BT headset is displayed in the list.

2.2   Using the Speakerphone

Activate the iPECS Speakerphone at any time (except for Paging) in place of lifting the handset to receive or place calls.

Additionally, you may switch between the handset and Speakerphone during a call. By keeping the handset Off-hook, the Group Listen feature is activated, which provides incoming audio over the Speaker with outgoing audio from the handset. This permits a local 'group' to listen to both sides of the conversation without interfering with the conversation.

While in a conversation using the Speakerphone, MUTE the microphone using the MUTE button. When MUTE is active, the MUTE button LED will be illuminated. To turn off MUTE, press the MUTE button again.

With Auto Speaker Select, activating or accessing a feature, or placing a call by pressing a flexible button will activate the Speakerphone automatically.

When using a Headset, the SPEAKER button controls the ON/OFF-hook state for the phone.

To use the Speakerphone to answer or place a call:
  ✓ Press the SPEAKER button, the phone goes off-hook and sends audio to the speaker and from the microphone.

To control the volume of the Speakerphone or handset:
  ✓ Press the VOLUME + or - button.

To MUTE the microphone (Speakerphone or handset):
  ✓ Select the MUTE button.

To turn off MUTE (turn the microphone ON):
  ✓ Press the MUTE button.

To activate Group Listen while on an active handset call:
  ✓ Press the SPEAKER button.

3 Receiving Calls

3.1 Answering a Call While Idle

There are three basic types of incoming calls; internal/external ringing calls, Intercom Voice Announce calls, and Hold recalls.

Internal/External calls to an iPECS Phone will appear on the DN(Directory Number) button.

Calls placed on Hold, including Transfers, parked calls, etc. will recall if left on hold for too long.

ICM Voice Announce calls are answered based on the ICM Signaling mode at the receiving phone; in Hands-free (HF) mode, after the splash tone and announcement, speak normally into the microphone. In the Privacy (PV) mode, lift the handset to respond. You can assign the ICM Signaling mode as discussed in User Program Codes.

The LCD will display the calling number or, if available, the name of the station or Trunk Access Code NAME Display.

To answer a call ringing at your phone:
   ✓ Lift the handset or press the flashing flexible button (as needed), the call will be connected.

To respond to an Intercom Voice Announce call:
   ✓ In HF mode, simply speak as normal into the microphone.
   ✓ In PV mode, lift the handset to respond.

3.2 Responding to a Call While Busy

While you are busy on another call, you may receive a Muted Ring, Camp-On tone, or Voice-Over announcement. Muted Ring is provided over the Speaker of your Phone indicating a Call Waiting. You also may receive Camp On tones, a burst of tones on top of the existing call, as an indication of another call waiting.

While busy, certain stations can activate Voice-Over to your phone. In this case, audio is received from both the active call and the Voice Over announcement at the same time.

Respond to any of these Off-hook Signals in one of several ways; place the existing call on Hold and answer the new incoming call, activate One-time DND, send a Silent Text Message, or ignore the new call.

The Attendant may use Intrusion to announce a call while you are busy.

3.3   Using Answering Machine Emulation (AME)

When your phone is allowed AME, your calls are connected to your voice mail directly, and, like a normal Answering Machine, the caller's voice is played over your Speaker as it is recorded in the mailbox. Thus, you can screen the call before answering. There are two methods of notification and call screening provided, Ring or Speaker mode.

- **Ring mode** — In the Ring mode, the AME flexible button will flash to notify you of a call. You may press the flexible button to hear the caller as the voice message is recorded.
- **Speaker mode** — In the Speaker mode, the caller's voice is broadcast over the Speaker of your iPECS Phone automatically.

To screen a call in Ring mode:
- ✓ Press the flashing AME button, the caller's voice is broadcast over the station Speaker and stored in the voice mailbox. In the Speaker mode, broadcast is automatic.

To stop the voice broadcast and leave the caller in Voice Mail:
- ✓ Press the illuminated Speaker button.

To talk with the caller and record the conversation in Voice Mail:
- ✓ Press the MUTE button.

To answer the call and cancel the voice message recording:
- ✓ Press the illuminated AME button, the caller is connected, and the Voice Mail disconnected.

3.4   Differential Ring Signals

When multiple phones in a small area ring, it can be difficult to tell which are ringing. The iPECS Phone has 16 Ring Tones available for differentiating one phone's ringing from another.

This feature can also be used to differentiate internal and external callers. Of the 16 tones,four can be downloaded from the system and changed.

To download a Ring Tone from the System:
1)   Press the MENU button and Dial 2 for Ring Tones.
2)   Dial 3 for Ring download.
3)   Dial the phone's memory location to receive the Ring (5-8).
4)   Dial 0-9 for the desired ring number; the selected ring is heard.
5)   Dial 1 to download the ring to your phone and dial 2 to return to the previous menu.

To select a Ring Tone from phone memory:
1)   Press the MENU button and Dial 2 for Ring Tones.
2)   Dial 1 for internal call ring or 2 for External call ring.
3)   Dial 1 for Keyset Ring Source.
4)   Dial 01-16 for the desired ring; the selected ring is heard.
5)   Press the HOLD(SAVE) button or the OK Softkey to complete the selection.

3.5   Answering Calls to Other Stations

When nearby stations are ringing, you may pick-up (answer) the call. You may answer a call ringing at a specific station (Directed Call Pick-Up) or answer the oldest call ringing at a station in your station group (Group Call Pick-Up).

You may assign a flexible button with the Group Call Pick-Up code for one-touch access.

To answer a call ringing at another station:

1)   Lift the handset and Dial the Directed Call Pick-Up code. The code may be different based on your system's numbering plan.

2)   Dial the Intercom Number of the ringing station; the call will be connected.

To answer a call ringing at a station in your group:

✓   Lift the handset and Dial the Group Call Pick-Up code, the call is connected. The code may be different based on your system's numbering plan.

3.6   Using Do-Not-Disturb (DND) to Block Incoming Calls

Activate Do-Not-Disturb when you wish not to be interrupted; the phone will block incoming calls. Internal callers will receive a fast busy tone and the display will show the DND status.

Activate Do-Not-Disturb while ringing (One-Time DND); Ringing terminates and the caller will get a fast busy tone and it requires a DND button.

The Attendants may be able to activate DND Override and intrude on an active call. The Attendants may also cancel DND at other stations.

To toggle DND ON and OFF:

✓   Press the DND button.

3.7   Forwarding Calls

3.7.1   Forwarding calls to another Station or Voice Mail or external number

Incoming calls may be diverted to other resources of the system. Resources include other stations, the VPCM Voice Mail and External Voice Mail. Your LCD and the LCD of the phone receiving the call indicate the forward status. Call Forward can be activated from your phone or from a different station (Call Forward, Remote). You may define the conditions or 'type of forward' as below:

- **Remote** – permits you to activate call forward from another station in the system. In this case, your station authorization code must be entered.
- **Unconditional** - all calls to the station, except recalls, will forward.
- **Busy** - Immediately forwards calls, except recalls, when the station is busy.
- **No Answer** - forwards calls to the station, except recalls, when the station is idle and does not answer within the No Answer timer.
- **Busy/No Answer** - forwards calls to the station if not answered within the No Answer timer.

To activate Call Forward from your phone:
  1)   Lift the handset.
  2)   Press the FORWARD Softkey or the DND button.
  3)   Dial the type of forward code 1-4.
  4)   Dial the destination number.
  5)   Press the HOLD(SAVE) button or the SAVE Soft key.

To deactivate Call Forward from your phone:
  1)   Lift the handset.
  2)   Press the FORWARD Softkey or the DND button.
  3)   Press the # button on the dial pad.

To activate Call Forward from a different phone within the System (Call Forward, Remote):
  1)   Lift the handset.
  2)   Press the FORWARD Softkey or the DND button.
  3)   Dial 0, the Remote Call Forward code.
  4)   Dial your Authorization code (Station number & Password).
  5)   Dial the 'type of forward' code 1-4.
  6)   Dial the destination number.

To deactivate Call Forward, Remote:
  1)   Lift the handset.
  2)   Press the FORWARD Softkey or the DND button.
  3)   Dial 0, the Remote Call Forward code.
  4)   Dial your Authorization code (Station number & Password).
  5)   Press the # button.

3.7.2 Forwarding callers to a Text Message

Using an iPECS Phone, you can send a 'Text Message' to internal callers. When calling your Station, internal callers will automatically receive the selected message or you can select a message in response to an internal call, Silent Text Message.

There is 1 Custom Display Message up to 24 characters. In addition, there are ten fix Pre-Defined Text Messages; some allow auxiliary input for time, date, etc. as shown in list below.

- Message 1: LUNCH RETURN AT hh:mm
- Message 2: ON VACATION - RETURN AT DATE mm/dd
- Message 3: OUT OF OFFICE - RETURN AT TIME hh:mm
- Message 4: OUT OF OFFICE- RETURN AT DATE mm/dd
- Message 5: OUT OF OFFICE - RETURN UNKNOWN
- Message 6: CALL (enter up to 17 digits)
- Message 7: IN OFFICE STA xxxx
- Message 8: IN MEETING - RETURN AT TIME hh:mm
- Message 9: AT HOME
- Message 0: AT BRANCH OFFICE
- *: User Custom Message
- #: Deactivate to activate Text Message Forward

To activate Text Message Forward:
1) Press the MENU button.
2) Dial the User Program feature code 41.
3) Dial the one-digit text Message code (0-9).
4) Dial any auxiliary input for messages 1-4 and 6-8.
5) Press the OK Softkey or the HOLD (SAVE) button, you will receive confirmation tone.

To cancel Text Message Forward:
1) Press the MENU button.
2) Dial the User Program feature code 41.
3) Press the # dial pad button.
4) Press the OK Softkey or the HOLD (SAVE) button, you will receive confirmation tone.

To program your Station Custom Message at your station:
1) Press the MENU button.
2) Dial User Program feature code 42.
3) Enter the message contents; up to 24 characters can be entered. Refer to '1.10 **Phone Entering Text'** for text entry details.
4) Press the OK Softkey or the HOLD (SAVE) button to save the message.

4 Placing Calls

4.1 Internal Calls

You can place calls to other stations in the system over the Intercom. The call will ring, or for an ICM Voice Announce call, a splash tone will be heard. Ring or Voice Announce is normally determined by settings at the called station. You can assign a flexible button for Direct Station Selection/Busy Lamp Field (DSS/BLF). The DSS/BLF button allows you to call another station with the single touch of a button. The button LED will display the other station's status (ON=busy, OFF=idle).

If you go off-hook and take no action, Intercom dial-tone will time-out, and after the Howler tone is received, your phone will be placed out-of-service in Intercom Lock-Out; you then must hang-up to return the phone to an idle state.

To place an Intercom call:

1) Lift the handset and Dial the Intercom number of the desired station.

2) When the call is answered or Splash tone is heard, begin speaking with the called party.

4.1.1 Using Camp-On when calling a busy station

If the called party is busy, you may activate Camp-On, Callback or, if allowed, Voice Over to the station. You may also use Step Call; dial the next station by dialing the last digit of the Intercom number. If you are the Attendant, you may activate Intrusion.

- **Camp-On** allows you to wait off-hook for the called station to answer.
- **Callback** allows you to hang-up, and when the busy station returns to an idle state, the system will call your Station; after you answer the callback, the system will call the previously busy station.
- **Voice Over** allows you to make an announcement to the busy user by combining your voice with the other party connected to the busy user.

To Camp-On (wait off-hook) for a busy station:

- ✓ Dial Camp-On Register code and await an answer.

To request a Callback (wait on-hook) for a busy station:

- ✓ Press the MSG button and hang-up.

To make a Voice Over announcement to a busy station:

1) Dial OHVO (Off Hook Voice Over) code.

2) After the Splash tone is heard, begin speaking.

4.1.2 Leaving a Message Wait Indication

If the called user does not answer or is in DND mode, you may leave a Message Wait indication. The called user will receive a Message Wait indication; the message LED will flash.

To activate Message Waiting:

- ✓ Press the MSG button and hang-up.

4.2   External Calls

4.2.1 Placing external Trunk calls

If Least Cost Routing is set-up, the number you dial will be analyzed and the system will place the call on the least expensive route.

You may be assigned dialing Restrictions, in which case you will receive error tone if you attempt to dial or access a restricted number or outside line. Line and Station Class of Service (COS), which establish dialing restrictions, may vary during Day and Night operation (Day/Night COS).

You may need to enter an Authorization code before placing calls, in which case you will receive a second dial tone.

NOTE
In the event of an emergency, assigned Emergency numbers (ex., a 911 call) may be dialed from any station in the System, regardless of a Station's dialing restrictions (COS).

To place an external call:
1)   Lift the handset and Dial the Trunk access code.
2)   Dial the desired number.

4.2.2 Waiting for the next available Outside line

If all the lines connected to your system are busy, you will receive an All lines Busy signal. You may request to be notified when a line is available for use.

To join a queue if the selected/dialed line is busy:
1)   Select the desired Trunk access code; when the busy notification is returned, press the MSG button.
2)   Return to an idle state by going on-hook. When the line is available, your Station will be notified (ringing).

4.2.3 Account Codes: Tracking External calls for billing

In some cases, you or your company may desire to track calls for billing or other purposes. You may enter an Account Code, which is output from the system in the SMDR report. You may have an Account Code flexible button, which allows one-touch entry of an Account Code.

To enter an Account Code before the call:
1)   Lift the handset.
2)   Press the assigned ACCOUNT CODE button.
3)   Dial the Account Code (1-12 digits).
4)   Press *, Intercom dial tone is heard.
5)   Place the outside call as normal.

To enter an Account Code during a call:
1)   Press the assigned ACCOUNT CODE button.
2)   Dial the Account Code (1-12 digits).
3)   Press *.

4.2.4 Disable dialing from your phone

You can temporarily 'Lock' your phone by activating Temporary COS; the phone is not allowed to place outside calling, except emergency calls. To deactivate Temporary COS you must enter your Authorization code.

To activate Temporary COS:
1) Press the MENU button.
2) Dial Extension Class Down code 31.
3) Dial your Password.
4) Press the HOLD(SAVE) button.

To deactivate Temporary COS:
1) Press the MENU button.
2) Dial Extension Class Recover code 32.
3) Dial your Password.
4) Press the HOLD(SAVE) button.

4.2.5 Temporarily override dialing restrictions at a phone

Override the dialing restrictions at any phone by activating Walking COS. When active, Walking COS applies the Class of Service of your Authorization for a call. Note you must activate Walking COS for each call.

To activate Walking COS:
1) Press the MENU button.
2) Dial User Program code 33.
3) Dial your Authorization Code (station number and password).
4) Place call as normal.

4.3 Directory

4.3.1 Using Last Number Redial (LNR)

The last number dialed on an external call is automatically saved in the Last Number Redial (LNR) buffer.

To dial the Last Number for an external call:
1) Lift the handset.
2) Dial Last Number Redial Code or Press REDIAL Softkey.
Or,

1) Press the LOG Softkey.
2) Press the Navigation up and down buttons to select from the last 100 numbers dialed or received.
3) Press the SEND Softkey or HOLD(SAVE) button.

4.3.2 Using and Entering Saved Number Dial

You may store the last number dialed on an external call to the Saved Number Dial buffer for convenient dialing later.

The Saved number, which can be up to 24 digits, is stored until a new number is saved.

To place a call using Save Number Dial:

1) Press the SPEED button.

2) Dial #.

To store a number in the Save Number Dial:

✓ While on an outgoing external call, press SPEED button twice.

4.3.3 Using Station Speed Dial Numbers

The iPECS system provides 100 Station Speed Dial numbers; telephone numbers you commonly dial. The number of entries in this Private Directory may vary but is typically 100 accessed by bin numbers (00 – 99).

Contact your system Administrator for details. These numbers, which are entered at your station, may include several 'special' instructions.

Special instructions and the corresponding button are:

- **PAUSE** will insert a momentary pause in the dialing.
- **FLASH** will generate a flash on the outside line.

When entering a Speed Dial, a 16-character name may be associated with the number for the Dial by NAME directory.

To place a call using Station Speed Dial:

1) Press the SPEED button.

2) Dial the desired Station Speed Dial bin number.

Or,

1) Press the DIR Softkey or Directory button.

2) Choose 1 for Station Speed.

3) Select from the list, or Dial by NAME.

To enter a Station Speed Dial number and NAME:

1) Press the DIR Softkey or Directory button.

2) Choose 1 for Station Speed.

3) Press the ADD Softkey.

4) Dial the desired Station Speed Dial bin number.

5) Dial the telephone number to be stored.

6) Press the HOLD(SAVE) button, or OK Softkey.

7) Enter a name up to 16 characters, if desired. For details on character entries, refer to the **"table 4.3.4: Searching Text"** to enter text from the dial pad.

8) Press the HOLD(SAVE) button, or OK Softkey.

Table 4.3.4: Searching Text

Dial Pad Digit	Searching Text	Remark
2	A B C	* For example, when pressing the dial pad 2, searches
3	D E F	the name containing A or B or C in the first character.
4	G H I	And when pressing the dial pad 2 in a row, searches
5	J K L	the name with both A or B or C in the first character
6	M N O	and A or B or C in the second character

7	P Q R S	
8	T U V	
9	W X Y Z	

4.3.4 Using System Speed Dial Numbers

The iPECS system has System Speed Dial numbers. You may, if allowed, use System Speed Dial to call frequently dialed numbers. System Speed Dial Number can be assigned through WMS.

To place a call using System Speed Dial Bin:

1) Lift the handset.
2) Press the DIR Softkey or the DIRECTORY button.
3) Choose 2 for System Speed.
4) Dial System Speed Dial Bin Number.

Or,

4) Press SEARCH Softkey to view list and press SELECT Softkey to select desired number.
5) Press SEND Softkey to place call.

To place a call using System Speed Dial Number:

1) Lift the handset.
2) Dial System Speed Dial Number. (System Speed Dial Phone number can be programmed in Web admin).

4.3.5 Using Group Speed Dial Numbers

The iPECS system has Group Speed Dial numbers. You may, if allowed, use Group Speed Dial to call frequently dialed numbers.

To place a call using Group Speed Dial Bin:

1) Lift the handset.
2) Press the DIR Softkey or the DIRECTORY button.
3) Choose 2 for Group Speed.
4) Dial Group Speed Dial Bin Number.

Or,

4) Select from the list, or Dial by Name. For details on character entries, refer to the **"table 4.3.4: Searching Text"** to enter text from the dial pad.

4.3.6 Using Dial by NAME and Entering Your NAME

Dial by NAME may be employed in three different Directories, the Private directory (Station Speed dial), Public Directory (System Speed dial), or Intercom Directory (Station NAME).

NOTE

To allow others to contact you via the Intercom directory, you must enter a name for your station (up to 16 characters).

To place a call using Dial by NAME:

1) Press the DIR Softkey or Directory button.

2) Dial the desired directory.

- 1: Station Speed
- 2: System Speed
- 3: Station NAME

3) The LCD will display the names in alphabetical order.

4) Scroll using the Navigation up/down keys or enter search characters. refer to the **"table 4.3.4: Searching Text"** to enter text from the dial pad.

5) Press the HOLD(SAVE) button to place the call.

<u>**To enter your station user name:**</u>

1) Press the MENU button.

2) Dial 12 the Station NAME registration code.

3) Enter the NAME, up to 16 characters. Refer to the "**1.10** Phone Entering Text" to enter text.

4.3.7 Using Automatic Called Number Redial (ACNR)

When making an external call and a busy signal is received, Automatic Called Number Redial (ACNR) will retry the number until the call is connected, the feature is cancelled, or the maximum number of retries is attempted.

For each retry, the system will activate your Speaker then place the call with the microphone muted. When the remote end answers, you must select the MUTE button, or lift the handset.

Either of these actions cancels the ACNR request as well as connects you to the remote party.

<u>**To set up ACNR, while on an outgoing call:**</u>

1) Use the Navigation button to display the next Softkey menu and select the ACNR Softkey.

2) Hang-up the handset.

<u>**To cancel the ACNR request:**</u>

- ✓ Press the ACNR STOP Softkey.

5 Call Handling

5.1 Call Transfer: Sending a call to another destination

You can send an active call to another station or other resource of the system, Call Transfer. You can screen the transfer with the receiving party (Screened Call Transfer) or complete the transfer without screening (Unscreened Call Transfer).

Transferred calls, internal or external, are place in Transfer Hold. These calls will receive Music on Hold (MOH) and will recall if not answered in a timely manner.

If an Unscreened Transfer encounters an error or DND, it may immediately recall at your Station.

DSS/BLF buttons may be employed to transfer calls.

To Transfer an active call:
1) Press the Transfer button.
2) Call the party to receive the transfer.
3) Unscreened Call Transfer- Hang-up.
4) Screened Call Transfer– When your call is answered or Splash tone is heard, announce the call then hang-up.

5.2 Call Hold: Placing a call in a waiting state

You may place an active call. Other stations may pick-up the call. The LEDs for DN buttons flash at distinctive rates for the holding station and other iPECS Phone users.

There are also user operations such as pressing a DSS/BLF button that will place a call in Automatic Hold.

Calls will remain in the held state for a period then you will receive a recall. This Hold Recall is provided with a different ring signal.

To place a call on Hold:
✓ Press the HOLD(SAVE) button.

5.3 Broker Call: Switching between two calls

You may switch between the active call and a call on Hold, placing the active call on Hold acting as a broker between two or more parties (Broker Call). iPECS Phone users may 'broker' for multiple calls up to the number of DN buttons on the phone.

To switch between two calls (Broker Call):
✓ Press the desired DN button.

5.4 Joining Multiple People in a Conference

You can establish a Conference with up to 128 parties when using VPCM module. The other parties in the Conference may be internal or external.

You may also use the Conference operation to join two external parties in a private conversation. This is an Unsupervised Conference, which is not subject to the normal Hold Recall operation.

To establish a Conference:

1) Establish call with one of the desired conference parties.

2) Select the CONF Softkey.

3) Establish call with another conference party.

4) Select the CONF Softkey.

5) Repeat the above steps for additional parties.

6) Select the CONF Softkey again to establish the conference.

To establish an Unsupervised Conference:

1) Establish conference with two external parties.

2) Select the CONF Softkey.

3) Hang-up the handset.

To retrieve an Unsupervised Conference:

✓ Lift the handset and Select the CONF(J) Softkey.

5.4.1 Setting up a Conference Room

In addition to establishing a Conference, letting up to 128 parties converse when using a VPCM.

When setting up a Conference Room, a password can be designated for invited parties (internal and external parties) to use for accessing the established Conference Room.

To set-up a Conference Room:

1) Press the MENU button and Dial 54 to create a Conference Room.

2) Dial the desired Conference Room number and *.

3) If desired enter a password for the Conference Room (up to 6 digits) and *.

4) Press the HOLD(SAVE) button to establish the Room.

To join a Conference Room:

1) Lift the handset and Dial Conference Room number.

2) Dial the Conference Room password and *

To delete a Conference Room:

1) Press the MENU button and Dial 55 to delete a Conference Room.

2) Dial the desired Conference Room number and *.

3) Dial the Conference Room password and *

4) Press the HOLD(SAVE) button to delete the Conference Room.

5.5 Call Park: Placing a call on Hold to Page

You may transfer an active outside call to a special holding location (Park Orbit), which can be accessed easily from any station in the system. Typically, this feature is used with Paging to notify the desired user of a parked call.

Parked calls are subject to Hold Recall after the Call Park timer.

To park an active external call:
1) Press the Transfer button.
2) Dial Call Park (Register/Answer) code.
3) Dial the Park Orbit number.
4) Return to idle.

To retrieve a parked call:
1) Lift the handset.
2) Dial Call Park (Register/Answer) code.
3) Dial the Park Orbit number.

5.6 Two-Way Record: Recording a call

You may record an active internal/external conversation in your Voice Mail Box.

To activate Two-Way Record:
✓ Use the Navigation button to display the next Softkey menu and select the RECORD Softkey, a record warning tone may be heard and recording starts.

To stop Two-Way Record:
✓ Use the Navigation button to display the next menu of softkeys and select the RECORD Softkey.
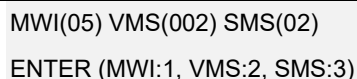Or,

✓ Hang-up the handset.

6 Send & Retrieve Messages

6.1 Responding to a Station Message Waiting Indication

Another station can leave a Station Message Waiting indication (MWI) to request a callback when you do not answer or your phone is in the DND mode. If programmed, a flashing MSG LED on the iPECS Phone indicates when there is a Message Waiting. As a further notification, you may receive a periodic Message Wait Reminder Tone. You may review and delete messages as well as respond with a callback.

To review your Station messages:

1) Press the MSG button, the LCD shows the Message Summary display.

> MWI(05) VMS(002) SMS(02)
>
> ENTER (MWI:1, VMS:2, SMS:3)

2) Dial 1 to view message waits from other stations.

3) Press the navigation up/down button to scroll through the messages.

To return a call from the list of ICM MWIs:

1) Press the navigation up/down buttons to scroll through the messages.

2) Press the SEND Softkey or OK button to select and place the return call.

6.2 Getting Voice Mail Messages

When callers are sent to your Voice Mailbox, they can leave a voice message, in the VPCM or an external Voice Mail system.

The Voice Mail system allows access to and management of received voice messages. While in your Mailbox, you may modify your password and Mailbox greeting.
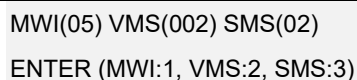
In addition, you can remotely control Call Forward for your station from the VPCM. You will require a valid Authorization code (station number and password) for your Mailbox to access the Voice messages.

To retrieve Voice Mail locally using a flexible button:

1) Press the programmed VOICE MAIL flexible button.

2) Dial your station number and corresponding password to receive the 'Number of Messages' prompt.

3) Follow the voice prompts to manage your messages.

4) At completion of your session, hang-up to return to idle.

To retrieve Voice Mail locally using the MSG button:

1) Press the MSG button, the LCD shows the Message Summary display.

> MWI(05) VMS(002) SMS(02)
>
> ENTER (MWI:1, VMS:2, SMS:3)

2) Dial 2 to access Voice Mail.

3) After the prompt enter your station number and password and *.

4) Follow the voice prompts to manage your messages.

5) At completion of your session, hang-up to return to idle.

6.3 Sending and Receiving Short Text Messages
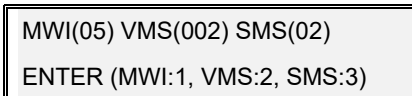
You can exchange short text messages (up to 80 alphanumeric characters) with other iPECS display phone users. If you have short text messages, the message button will be flashing. If the ring/message LED is set to MWI, the ring/message LED will flash.

To send an SMS message to another iPECS display Phone:

1) Press the MENU button.

2) Dial 43, the SMS send code.

3) Enter the station to receive the message.

4) Press the ADD Softkey to append the next station number and Dial the station number.

5) Press the FINISH Softkey.

6) Enter your message using the dial pad. Refer to "**1.10 Phone Entering Text"** for details on entering text.

7) Press the HOLD(SAVE) button to send your message.

To view your received Short text messages:

1) Press the MSG button, the LCD will display the Message Summary display.

> MWI(05) VMS(002) SMS(02)
> ENTER (MWI:1, VMS:2, SMS:3)

2) Dial 3; the first few SMS messages are shown in brief.

3) Press the NEXT Softkey to view the next SMS message.

To delete received Short text messages:

✓ Press the DELETE Softkey or the DELETE ALL Softkey.

7 Remote System Access

7.1 Direct Inward System Access (DISA)

DISA (Direct Inward System Access) allows remote users to gain access to the system's resources. You may be required to enter an Authorization Code to access the system remotely. The system will recognize your dialed inputs to call other stations, place calls over outside lines, review voice mails, etc.

To access system resources remotely:
1) Call the system's DISA facility (check with your system Administrator).
2) Await answer and, if required, dial your authorization code (station number and password).
3) Dial as needed for the desired system resource.

7.2 Mobile Phone Extension

When away from your desk or office you can place and receive iPECS calls on your mobile phone. You may need to activate the Mobile Phone Extension feature and register the Mobile Phone number.

To register a mobile phone number:
1) Press the MENU button and Dial 52.
2) Dial the Mobile Extension List number (1~5).
3) Dial your mobile phone number.
4) Press the HOLD(SAVE) button.

To activate Mobile Phone Extension for your registered mobile phone:
1) Press the MENU button, Dial 51.
2) Dial the Mobile Extension List number (1~5).
3) Dial 1 to activate or 0 to deactivate.
4) Press the HOLD(SAVE) button.

To place a call from the mobile extension using the iPECS System:
1) Dial the DID phone number of your station; the system will check the Caller ID, answer the call and return intercom dial tone.
2) Place internal or external iPECS calls as normal.

To Transfer a call from the mobile extension using the iPECS:
1) Dial "*" while on an iPECS call.
2) Dial the desired station, the call is transferred and the mobile phone returns to idle.
3) Reconnect to the transfer by dialing #.

NOTE

This feature is only available when the DID number is serviced by an ISDN or SIP outside line. Check with your system administrator to determine if the Mobile Extension feature is available to you.

8 Misc. Features

8.1   Call Log

You can view a log of incoming, outgoing and missed calls on the display (up to 100 records). The LOG Softkey provides simple access to incoming (called), outgoing (dialed) and missed (lost) calls.

NOTE

If a call is missed, the missed call icon will appear in the LCD. In this case, the LOG Softkey displays as LOG(M), indicating the missed call. The detailed layout of the call log for 1010i and 1020i may differ from pictures in below.

To access the Call Log menu:

1) Press the LOG Softkey.

2) Use the Navigation up/down keys, to view items (Called, Dialed, or Lost).

```
[02-15 21:15]  ▶   9023..
[02-15 19:30]  ◀   10134
[02-10 09:30] M    0103.
   SEND    SELECT    TYPE▶
```
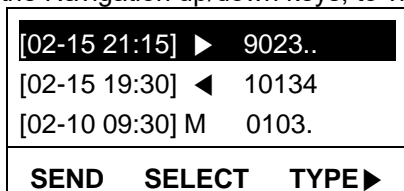
The icon in front of each log item indicates the type of call:

- ◀: Incoming call (Called), ▶: Outgoing call (Dialed), M: Missed call (Lost)

To place a call using numbers stored in the Call Log:

1) From the Call Log, use the Navigation up/down keys, to view items (Called, Dialed, or Lost).

```
[02-15 21:15]  ▶   9023..
[02-15 19:30]  ◀   10134
[02-10 09:30] M    0103..
   SEND    SELECT    TYPE▶
```
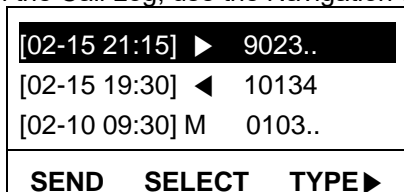
2) Highlight the desired item, and press the OK button to call the number.

To save an external number to your Station Speed dial:

1) Use the Navigation up/down buttons to highlight the desired Call log item.

2) Press the SELECT Softkey.

3) Press the SAVE Softkey.

```
9023113456
02/15 21:15
   BACK    SAVE    DELETE
```
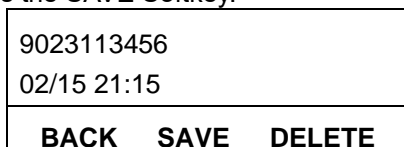
4) Press 1 to save telephone number as Station Speed Dial.

5) Press the HOLD(SAVE) button.

6) Enter Speed Name for Dial by Name.

7) Press OK Softkey or the HOLD(SAVE) button.

8.2   Using Internal and Meet-Me Paging

You can broadcast announcements to other stations. Stations are assigned to receive announcements from one or more of the Internal Page Zones. In your Page announcement, you can request a party answer the Page using Meet-Me Paging. In this case, the paged party may answer the page from any phone in the system by dialing the Internal Page Answer code.

To make a page:
1)   Lift the handset.
2)   Dial Internal Page code and the desired Page zone.
3)   If assigned, after the page warning tone, make your announcement.

To answer a Meet-me-Page:
✓   Lift the handset and Dial Internal Page Answer code.

8.3   Push-To-Talk (PTT) Page

iPECS Phones can be assigned as a member of one or more of the system's nine Push-To-Talk (PTT) page groups. You login or log-out of any one or all PTT groups to which your phone is assigned. Once logged in, place or receive one-way page announcements to/from other users who are logged in to the sAME PTT group.

To log-in to a PTT group:
1)   Dial the PTT login/logout code.
2)   Dial the desired PTT group number (1-9 or 0 for all groups).

To log-out of the PTT group(s):
1)   Dial the PTT login/logout code.
2)   Press the * dial pad button.

To place a page announcement to the active PTT group:
1)   Press and hold the PTT flexible button.
2)   After confirmation tone, make your page announcement.
3)   When you finish your announcement, release the PTT flexible button.

8.4   Wake-Up Alarm

iPECS system include an Alarm clock for each station in the system. You may have access to one or 5 alarm settings and may set the alarm as a one-time or repeating alarm. When you set an alarm, you select the repeating type (1 – 5) as below.

- 1 - Alarm activates one-time.
- 2 - Alarm repeats daily.
- 3 - Alarm repeats daily, Monday through Friday.
- 4 - Alarm repeats daily, Monday through Saturday.
- 5 - Alarm activates one-time on the assigned date and time.

To set the Wake Up Alarm clock:

1) Press the MENU button and Dial 13.

2) Enter the Wake-up alarm index number, 1 to 5.

3) Enter the Repeating type, 1 to 5.

4) Dial the desired 2-digit hour (24-hour mode), then the 2-digit minute for alerting.

5) If requested, enter the date for the alarm as two (2) digits for year, month and day of the month.

6) Press the HOLD(SAVE) button.

To erase a Wake-Up alarm:

1) Press the MENU button and Dial 14.

2) Enter Wake-Up alarm index number, 1 to 5.

3) Press the HOLD(SAVE) button.

To stop the alarm notification

✓ Lift the handset or press the Speaker button.

8.5 System Voice Memo

The integrated Voice Mail of your iPECS system incorporates several Voice Memos to provide you with general information such as station number, date, time, and feature status. Voice Memos are heard over the iPECS Phone Speaker . For the Station Status Memo, the following items are reported.

- ICM Signaling Mode (Handsfree/Tone/Privacy)
- Station IP Address
- Station Mac Address
- Number of messages x (x: number of all messages waiting)
- Wake-Up Time (hh:mm)
- Do Not Disturb
- Forwarded to station xxx
- Forwarded to speed bin xxx
- Queued outside line xxx
- Locked (Temporary COS)
- COS x

To hear the Date & Time memo:

1) Dial "Information voice announce" feature code and dial 1.

2) The Date and Time memo are heard, "The Date is May 2nd.Time is 12:57 pm".

To hear the Station Number Prompt:

1) Dial "Information voice announce" feature code and dial 2.

2) The Station Number memo is heard, "This is station 150".

To hear the Station Status memo:

1) Dial "Information voice announce" feature code and dial 3.

2) The Station Status Memo is heard.

NOTE

Only activated features are announced.

8.6 Hot Desk

iPECS phones in the system may be assigned for Hot Desk operation.   These Hot Desk phones let you log-on and use the Hot Desk phone as if it were your station.

Once logged-on, the Hot Desk station will take on the attributes assigned to your station number, and you can make and receive calls as normal.

When you log-out of the Hot Desk, you can choose a forward destination, such as voice mail, for your calls.

To Log on to a Hot Desk station:

1)   Lift the handset.

2)   Dial Hot Desk Login/Logout feature code.

3)   Dial your Authorization Code (Station Number and Password) and *.

To Log out of the Hot Desk station:

1)   Lift the handset.

2)   Dial Hot Desk Login/Logout feature code.

3)   Input Call forward destination number optionally.

Or,

✓   Press '#' if call forward is not required.

Or,

✓   Press the HOLD(SAVE)button.

9   Features & Flex Buttons

9.1   Entering Station Program Data

A special code set is available for iPECS Phone users to assign certain attributes such as Authorization Codes (Passwords). After entering the User Program mode, you dial the codes to select the attribute and setting. Once selected, the setting is saved. A list of the User Program codes, the feature/function and inputs required are available from your system administrator.

In some cases, you can assign these codes to a flexible button.

To assign user programmable attributes to your station:
1) Press the MENU button.
2) Dial desired User Program codes.

9.2   Assigning Features to Flexible Buttons

You may assign features and functions to the flexible buttons on your iPECS Phone, and may be able to assign Trunk lines.

Flexible buttons may be assigned for most features providing One-Touch feature activation. For example, a flexible button may be assigned to access the Account Code feature and may include the Account code digits.

Features that may be assigned to a flexible button include.

- **DSS/BLF**—Enter station number or external number.
- **Feature Code**—Enter Flex Numbering Plan code (contact to your system administrator).
- **User Program Code**— Dial "Station Program Mode" code and enter a User Program code, see (refer to User Program Codes).
- **Trunk Line**— Enter the Trunk line access code and Trunk Serial No.

To assign a feature to a Flex button:
1) Press the MENU button.
2) Press the desired flexible button.
   - In case of station number / external number / feature code, dial 2 and desired station number or external number or feature code, then press the HOLD(SAVE)button.
   - In case of fixed button, dial 1 and select desired fixed button type (PTT, REDIAL, MUTE, FLASH…) with the VOLUME + or - button, then press the HOLD(SAVE)button.

9.3   Network Configuration

The network Configuration menu affects the connection of your phone to your local area network; it is intended for access by trained technicians only. The structure of the Network Configuration menu is shown below.
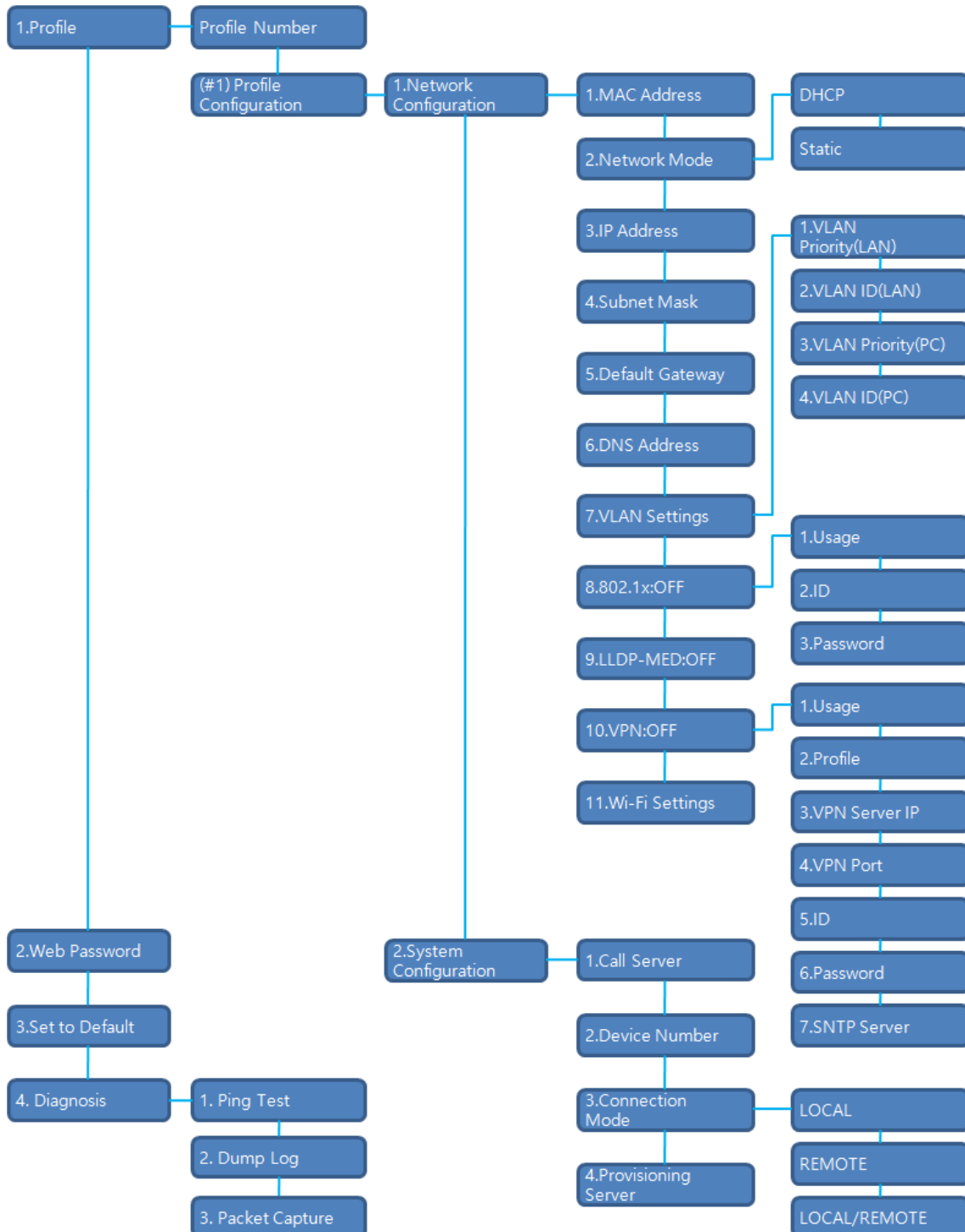

Figure 9.3: 1000i Network Configuration

- **Profile** – 1000i IP phone operates two independent profiles. Each profile has submenus as shown above.

- **Web Password** – sets passwords for all accounts as default in both profiles.
- **Set to Default** – sets all features as default.
- **Diagnosis** - used in case of network emergency and to diagnose the terminal itself problem.

To access Network Configuration menu:

1) Press the MENU button.

2) Select Network Settings from the submenu.

3) Enter the password to display Network Configuration menu: (contact to your system administrator).

4) Use the navigation or VOLUME + or – buttons to highlight an item, then select the item with the OK button or Softkey. You may press the digit key to select an item.

5) Enter the data for the selected menu item, then press the OK button or Softkey.

9.4   Additional Phone Configurations

You can see and change the configuration related to your IP phone, other than network settings. This is supported on 1030i, 1040i and 1050i only.

To set additional phone configurations:

1) Press the MENU button.

2) Select "User Organizer" and select the submenu "# Additional Settings".

3) Change the value of the desired menu.

4) Press the OK softkey or HOLD button to save.

To set the background image on IDLE screen:

1) Go to the additional settings menu.

2) Select "1. Background image".
There are 2 or 3 pictures you can use. Press [Next] button to choose. IP phones basically provide 2 pictures for background image. You can add a third picture through the WEB manager. See the next section **"9.5 Web Manager"** for details.

3) Press [OK] softkey or [HOLD] button to save.

To set the label transparency on IDLE screen:

1) Go to the additional settings menu.

2) Select "2. Label Transparency".

3) Enter a value to use as the transparency of the label background on IDLE screen. The closer to 100, the more transparent.

4) Press the OK softkey or HOLD button to save.

To set the date transparency on Calendar screen:

1) Go to the additional settings menu.

2) Select "3. Calendar Transparency".

3) Enter a value to use as the transparency of the date background on Calendar screen. The closer to 100, the more transparent.

4) Press the OK softkey or HOLD button to save.

9.5   Web Manager

The Web Manager is a web-based tool for configuring the IP Phone parameters. The Web Manager can access to parameters not available through the Network setting menu.

In addition to remote access to the IP Phone configuration, Web Manager is more convenient when configuring a number of IP Phones or parameters of a single IP Phone.
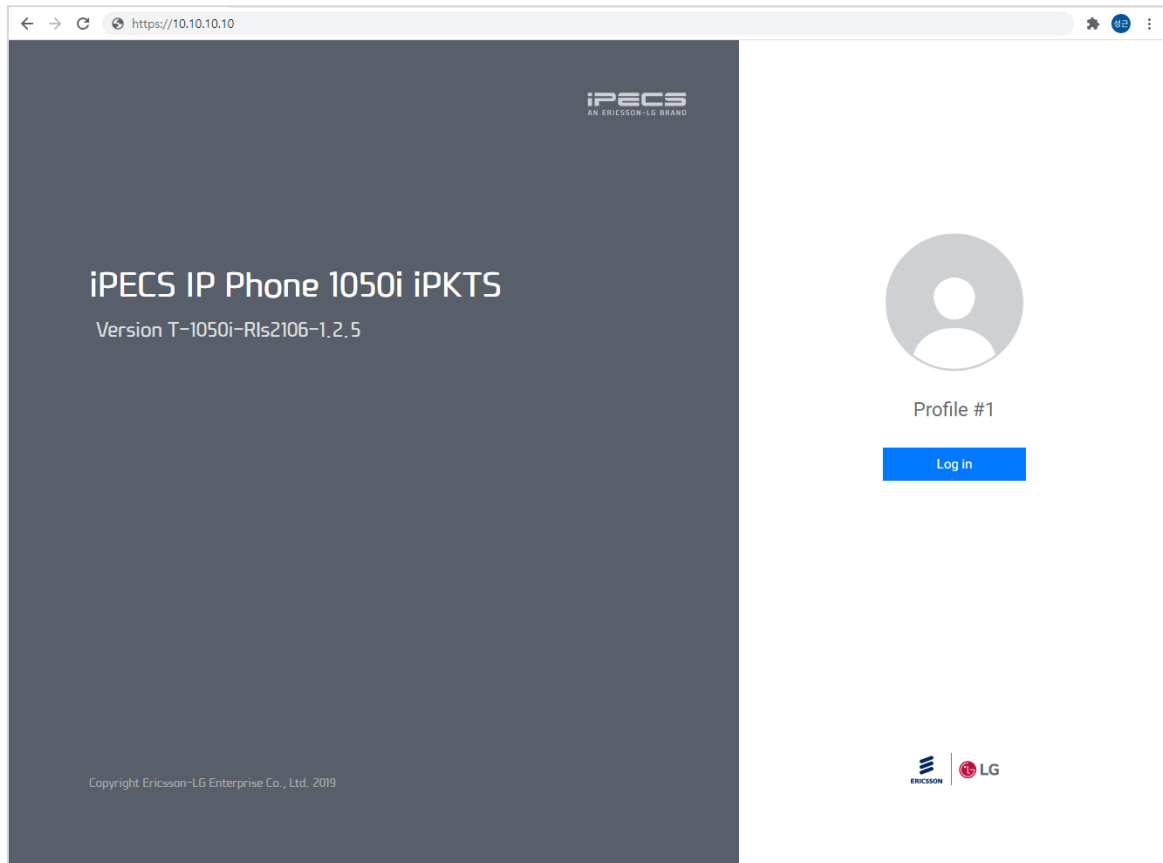

Figure 9.5-1: 1000i Web manager

To access Web manager:

1) Access the IP phone's IP address with a web browser. (ex, https://10.10.10.10)

2) Proceed by pressing "Proceed to … (unsafe)" if no certificate is installed.

3) Confirm the profile number to access, and press Login button.

4) Enter a valid user name and password. The default user name is "admin" and the default password is "ipkts". If you try to access with the default account like this, you must change the password in the next step.

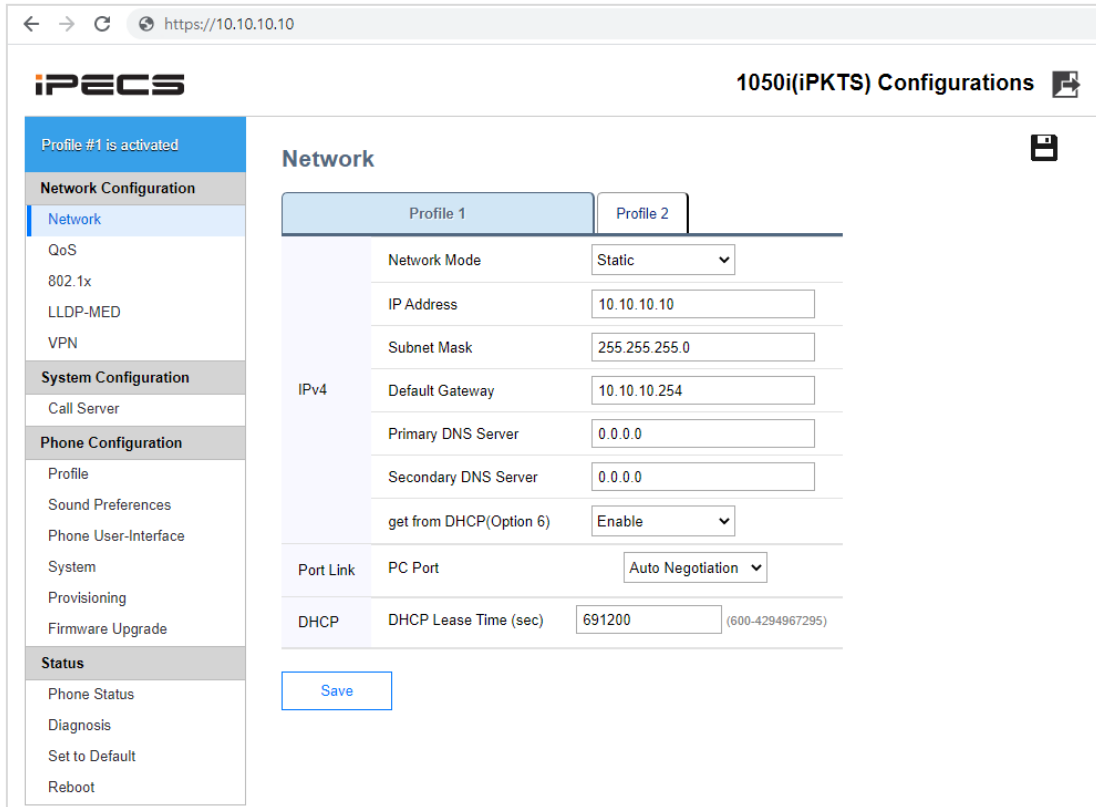5) Enter a user name and new password once you change the default password.
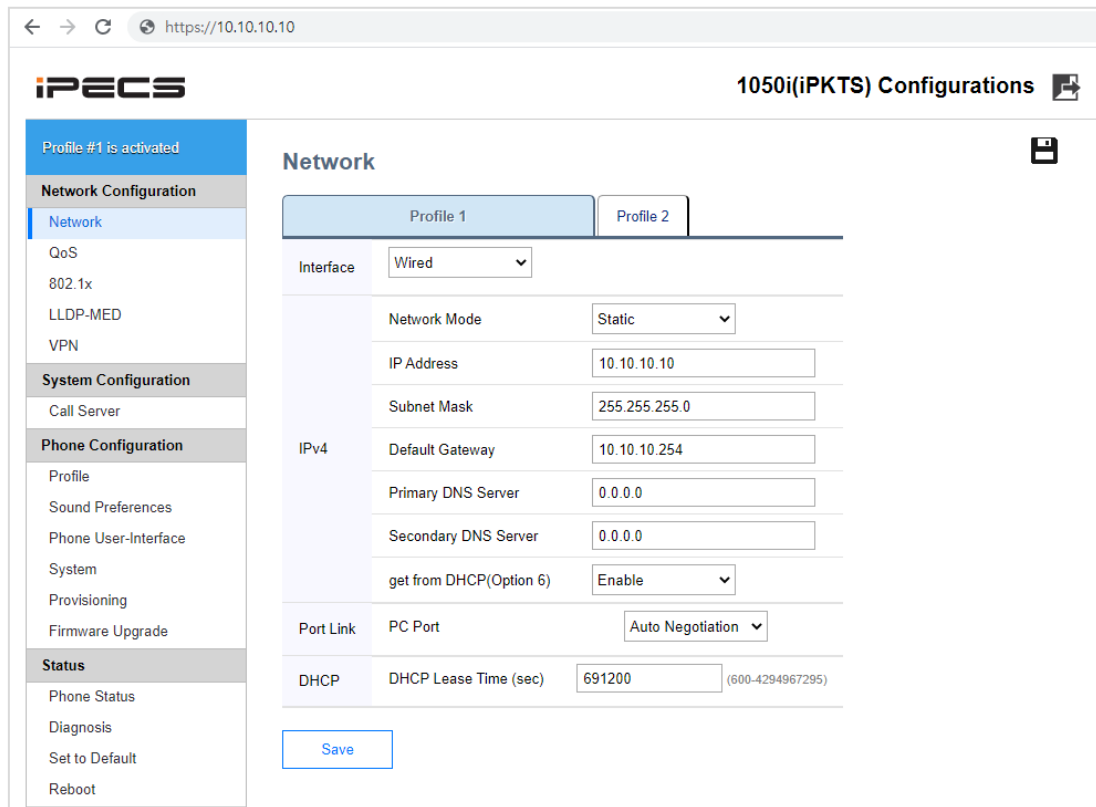
Figure 9.5-2: 1000i Web Configuration

**Figure 9.5-3: 1000i Web Configuration when a Wi-Fi dongle is inserted in the 1040i/1050i.**

<u>**To set the network configurations:**</u>

1) Click one menu item in "Network Configuration" category on the left.

2) Check the contents of the selected menu in the right.

3) Change the value of the desired fields, then click the Save button or the Save icon at the top.

4) If you change a field requires a reboot, the following confirmation box is displayed.
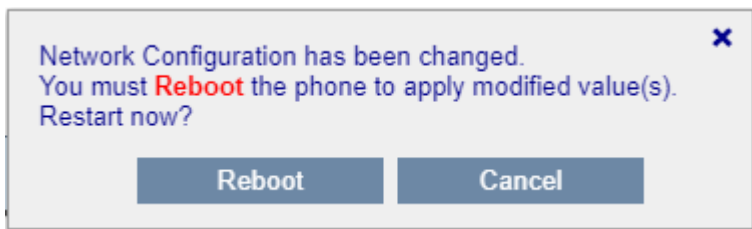
You can click the 'Cancel' button to continue the setup process. Or you can click the 'Reboot' button to restart and apply the new value.

If you do not reboot after changing/saving settings, the following text will be displayed at the bottom left. In this case, a reboot is required for normal operation.
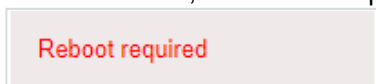
5) If you leave the page without saving, the following confirmation message appears. Click the "Cancel" button to stay on the current page to keep your changes or click "Leave" to exit the menu without saving your changes. The label of the button may vary depending on the browser.
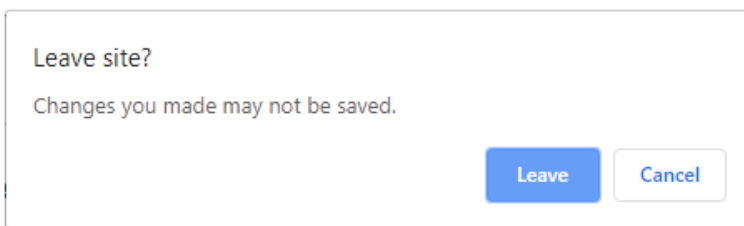
<u>**To set VPN configuration**</u>

1) Select VPN under Network Configuration. The currently active Profile Number is displayed in the Profile area at the top left, and Profile No. 1 is activated in the figure below.

2) To use VPN, change Activation to Enable, set Profile to Upload when you receive an OVPN file from the system administrator, and set Profile to Manual when you receive settings and certificate from system administrator.

3) If you select Manual profile, after entering all settings and click Save to save the values. And, upload the certificate received from the system administrator by clicking Upload button of VPN CA Certification.

4) If you select Upload Profile, upload the OVPN file received from the system administrator. If OpenVPN user ID/Password are required, enter the corresponding value.

5) For using OpenVPN, time synchronization is required for certificate verification, enter the SNTP server value for both Manual/Upload Profiles.

6) After uploading all necessary files and completing all settings, press the Reboot menu on the left to restart the phone and apply the new settings.

To set the Wi-Fi configurations: (1040i/1050i only)

If you change Interface to 'Wireless' in Figure 10.3-2b, the "Wi-Fi" menu is expanded as shown below. Conversely, if you select "Wired", it will disappear.


You can do the following in this menu, please refer to the "1000i IPKTS Wi-Fi Setting Guide"

To set the server configurations:

1) Click the "Call Server" link on the left.

2) Enter values in the Server Address, Phone Number fields.

3) Set the connection type among the three modes.

4) Save new changes.

To change the profile:

1) Click the "Profile" link on the left.

2) Check and change the value of Profile Number item on the top.

3) Click the Save button or the Save icon at the top.

4) The confirmation text that the profile number has changed is displayed in the upper left corner. It is not active yet, and changes to the profile are completed after the restart.

> Profile #2 is selected, not
> activated yet.
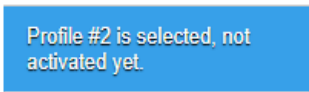
5) Reboot.

To set the phone user-interface configurations:

1) Click one menu item in the Phone Configuration category on the left.

2) In the Phone User-Interface screen, the following attributes may be changed.

- Use of Lunar Calendar; When it is enabled in Korean mode, the lunar calendar is displayed on the LCD calendar. (Supported on 1030i, 1040i and 1050i)

- Background Image; 1030i, 1040i and 1050i can use this menu to set the background image of LCD. In addition to specifying in default pictures, you can also add a new picture from your PC. The size of user background image should be 320x240 (1030i), 480x320 (1040i) and 480x272 (1050i). The supported image formats are png and bmp format. (24 bit per pixel format)

    i. Press the [Set user background image] button.

    ii. Check the optimal size of the picture.

    iii. Select the appropriate picture and press the [Upload] button.

    iv. Click the Save button or the Save icon at the top.

- Label Transparency; The transparency of the label background on IDLE screen. The closer to 100, the more transparent. It's supported on 1030i, 1040i and 1050i.

- Screen Timeout; One of the screensaver features. The screensaver is activated after the timeout has elapsed since the last action. It's supported on 1030i, 1040i and 1050i.

- Screen Saver type; The screen to be shown during the screensaver operation. It's supported on 1030i, 1040i and 1050i.

- LCD Password is required to access the Network Setting menu. Please contact your system administrator for more information, including defaults.

3) Change the value of the desired fields, then click the Save button or the Save icon at the top.

To upgrade firmware:

1) Prepare a valid firmware SW distributed by the manufacture.

2) Click "Firmware upgrade" in the Phone Configuration category on the left.

3) Click "Upload File" after choosing a new upgrade file. You cannot cancel the upgrade process after starting. Do not turn off the power while applying new firmware.

4) At the end of the process, the result of upgrade or a reboot button will appear. Restart completes applying new firmware.

To set as default:

1) Click the "Set to default" link on the left.

2) Or go to the "Phone Status" menu. Find "Load Default Settings" section and click the "OK" button in that section.

3) Confirm your actions. Restart completes the setup as default.

To control the LSS display:

1000i (except 1010i) can have up to 3 1048ilss. Once 1048ilss is attached, you can see the LSS control menu in the Phone configuration category of the web manager.

1) Check if the LSS is attached well.

2) Click "LSS (1048ilss)" menu in "Phone Configuration" category on the left.

3) In LSS (1048ilss) menu, the following attributes may be changed.

Figure 10.3-3: LSS menu

- Columns: The number of columns on the LSS screen. 1048ilss has two columns of 12 fixed buttons per one column. You can use only left 12 buttons by determining this 'Column number' as 1.
- Label – Font size: The font size of LSS display
- Label – Font color: The text color of LSS display expressed in Hex color code. To set it, enter the color value directly or use the color picker.
- Label – Background color: The background color of LSS display, expressed in combination of 'transparency' and 'Hex color code'. To set, click the color preview box to use the color picker.

Figure 10.3-4: Color picker

- Border – Activation: Each label on LSS screen has a border. You can set this property to 'enable' to show it.
- Border – Border color: The color of border, expressed in combination of 'transparency' and 'Hex color code'. To set, click the color preview box to use the color picker.
- Background: 1048ilss has a color graphic background, using one of the suggestions. The size of user background image should be 272x480 in PNG or BMP format. To use a new picture on your PC, follows these steps:
  - A. Press the [Change user background image] button.
  - B. Check the optimal size of the picture.
  - C. Select the appropriate picture and press the [Upload] button.
4) Click the Save button or the Save icon at the top

To check the phone, some diagnosis tools are provided in the "Status" > "Diagnosis" menu.

Dump Log

| Download |

Packet Capture

| Start | |

Port Mirroring

| Start |

LCD Capture

| Save |

Dump Log (Wi-Fi)

| Start |

Dump Log (Bluetooth)

| Start |

To dump a log

1) Press the "Download" button in the "Dump Log" section.

2) Wait for a while.

3) The log file is saved to the PC.

To dump a log (Wi-Fi): (1040i/1050i only)

This is shown when a Wi-Fi dongle is attached.

1) First, use "Start" and "Stop" to collect logs.

2) Press the "Download" button in the "Dump Log (Wi-Fi)" section.

3) Wait for a while.

4) The log file is saved to the PC.

To dump a log (Bluetooth): (1040i/1050i only)

This is shown when a Bluetooth dongle is attached.

1) First, use "Start" and "Stop" to collect logs.

2) Press the "Download" button in the "Dump Log (Bluetooth)" section.

3) Wait for a while.

4) The log file is saved to the PC.

To start capture the packets from/to the phone:

1) If you want to capture some specified packets, enter a filter string in the "Packet Capture" section.

2) Press the "Start" button.

3) The phone will start the capturing of packets.

To stop capture the packets and download:

1) Press the "Stop" button in the "Packet Capture" section.

2)   Press the "Download" button.

3)   Packet captured file is saved to the PC.

4)   Press the "Delete" button to remove the temporary log file saved in the phone.

To start port mirroring from the LAN port to the PC port:

1)   Press the "Start" button in the "Port Mirroring" section.

2)   The PC connected to the PC port of the phone can capture the packets from/to the phone.

To stop the port mirroing:

✓   Press the "Stop" button in the "Port Mirroring" section.

To capture a LCD screen:

1) Press the "Save" button in the "LCD Capture" section.

2) Captured image file is saved to the PC.

Appendix A: User Program Code

The Extension User program menu is shown in the LCD of iPECS Multi-button phones to guide users in programming features and functions. The VOLUME + or - button is used to scroll menu items, and the dial pad is used to enter a selection. The codes are also used to assign functions or features to a Flex button.

Table A: 1000i Series User Program Code

Code	Function	Remarks
11	Intercom Answer Mode	1:H, 2:T, 3:P
12	User name creation	
13	Set wake-up alarm time	HH/mm, 24-hour clock
14	Cancel Wake-up Alarm	
15	Set language for the display	00-19
16	LCD Date Mode Change	DD/MM/YY or MMDDYY
17	LCD Time Mode Change	12 Hour/24 Hour
18	Set Backlight	0-3
19	Set Contrast	
10	Set Font Type	
1*	Set DTMF Mute	
1#	Additional Setting	
21	ICM Ring Type	
22	TRK Ring Type	
23	Ring Download	LIP-Series Only
31	Temporary COS	Auth. Code required
32	Retrieve COS	Auth. Code required
33	COS Override (Walking COS)	Auth. Code required
34	Register Password	
35	Call Log Protect	
36	SMS Message Protect	LIP-Series/LDP6000-Series
41	Set Pre-defined Message.	0-9: MSG, *: User Custom, #:4:Deactivation
42	Create a Station User Message	
43	Send SMS Message	LIP Series/LDP6000 Series
44	Receive SMS Message	LIP Series/LDP6000 Series
51	Activate a mobile phone	X=1-2
52	Register the mobile number	X=1-2
53	Register the mobile CLI number	X=1-2
54	Create Conf Room	
55	Delete Conf Room	
61	Speaker /Headset Mode	Speak/Headset/E-MIC
62	Headset Ring Mode	Speaker /Headset/Both
71	Register Station ICLID	
72	View Station ICLID	
81	View IP Address	

Code	Function	Remarks
82	View Mac Address	
83	View Gigabit Phone version	
80	Network Setting	

Appendix B: 1000i Series Models Specification

Enjoy a wide selection of easy-to-use system IP phones to enrich your communications experience with a powerful Speakerphone and wideband voice support.

1000i Series phones from Entry level to advanced terminals, designed to best fit the users' needs.

Table B: 1000i Series Models Specification

Specification		1010i	1020i	1030i	1040i	1050i
Display	LCD Size	2.4"	2.8"	2.8"	3.5"	4.3"
	LCD Resolution (Pixels)	132 x 64	132 x 64	320 x 240	480 x 320	480 x 272
	UI Line	4 Line	4 Line	6 Line(Max)	6 Line	8 Line
	Backlit	N/A	Yes			
	LCD Type	Black and White	Gray scale graphic	Color graphic		
Keypad	Programmable button with BLF	YES (4)	YES (8)	YES (6)	YES (8)	YES (12)
	Softkey	YES(3)				
	Navigation key	Yes				
	Fixed button (dedicated hard keys)	YES (11 buttons)	YES (11 buttons)	YES (11 buttons)	YES (11 buttons)	YES (11 buttons)
	LED Buttons	YES (1 Color LED)	YES (3 Color LED)			
Self labeling		4 buttons	4 buttons x 3 pages	6 buttons x 3 pages	8 buttons x 3 pages	12 buttons x 3 pages
Paper labeling		-	4 buttons	-	-	-
Total programable keys		4	16	18	24	36
Network interface	Ethernet (IEEE 802.3/1 Gigabit)	YES (2*10/100 Base-T)	YES (2*10/100/1000 Base-T)			
	EHSA Support	N/A	YES			
Wireless interface	USB dongle Support	NO			YES	
Speakerphone		YES (Full duplex)				

Specification		1010i	1020i	1030i	1040i	1050i
Audio interfaces	Handset (RJ-9)	YES				
	Headset(RJ-9)	YES				
	Headset(USB)	N/A			YES	
	Headset(BT)	N/A			YES(BT Dongle Support)	
IM Presence		N/A		YES		
BLF		YES				
Power	Local(Optional - 48V,0.3A)	YES				
	PoE (802.3af)	Class 2	Class 2	Class 2	Class 3	Class 3
Audio	Codec	G.711, G.729AB, G.722, Opus				
	Call Signaling Protocol	Ericsson-LG Enterprise iPECS protocol				
	Features	Echo cancellation, VAD, CNG, Hearing Aid Compatible				
Network	IP Address	Static / DHCP				
	LLDP-MED, VLAN	YES				
	QoS	Dynamic jitter buffering, 802.1p/Q, Layer 3 TOS, DiffServ				
Security	Standard	SRTP w/AES-128, 802.1x/EAP-MD5(EAPOL), Password login				
	VPN (Open VPN)	YES				
Management	Auto/Remote Upgrade	YES				
	Web Management	YES				
Others	Phone tilting	YES (2 Level Bracket)				
	DSS Support	N/A	YES(1024idss,1048ilss,1048idss)			
	Wall mount	YES				
	Ring type	Wave file/FM method				

Appendix C: Open Source Software Notice

Open Source Software used in this product are listed as below. You can obtain a copy of the Open Source Software License from Ericsson-LG Enterprise Web site, http://www.ericssonlg-enterprise.com. Ericsson-LG Enterprise reserves the right to make changes at any time without notice.

Open Source	License
u-boot	GPL 2.0
linux	GPL 2.0
busybox	GPL 2.0
Alsa Libraries	LGPL
ortp	LGPL
pj_jbuf	GPL 2.0
ibsrtp	BSD
Curl/LibCurl	MIT
expat	MIT
wpa_supplicant	GPL 2.0
OpenLLDP	BSD
OpenVPN	GPL 2.0

Ericsson-LG Enterprise offers to provide you with open source code on CD-ROM for a charge covering the cost of performing such distribution, such as the cost of media, shipping and handling upon e-mail request to Ericsson-LG Enterprise at opensource@ericssonlg.com

This offer is valid for a period of three (3) years from the date of the distribution of this product by Ericsson-LG Enterprise.

The contents of this document are subject to revision without notice due to continued progress in methodology design and manufacturing. Ericsson-LG Enterprise shall have no liability for any error or damage of any kind resulting from the use of this document.

$C\epsilon$

Posted in Korea

www.ericssonlg-enterprise.com

© Ericsson-LG Enterprise Co., Ltd. 2019