



**Strata CIX IPT/DKT Telephone
Administrator Manual**

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CIX-AG-DKIPT-VA

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Introduction

This Telephone Administrator Manual provides Administrator level instructions for the Toshiba Strata CIX100, CIX200 and CIX670 telephone systems

- Strata IP telephone (IPT2010-SD, IPT2020-SD and IPT2008-SDL)
- Strata DKT3000/3200/3500-series digital telephones
- Strata Digital Add-on Module (DADM)
- Strata IP Add-on Module (IADM2020)
- Strata Direct Station Selection (DSS) console

Organisation

- **Chapter 1 – Administrator Mode**
- **Chapter 2 – DKT/IPT Settings**
- **Chapter 3 – IPT2008-SDL Settings**

How to Use This Guide

This guide provides in-depth instructions for the IPT2000-series, DKT3000/3200/3500-series telephones and their features. Most telephone users can use the “*Strata CIX DKT/IPT Quick Reference Guide*” instead of this guide.

Conventions

Conventions	Description
Note	Elaborates specific items or references other information. Within some tables, general notes apply to the entire table and numbered notes apply to specific items.
Important!	<i>Calls attention to important instructions or information.</i>
Extension Number	<p>Press to answer a call to the Extension Number. Each station can have multiple extension buttons. Incoming calls ring the extension button(s) from the top down. For example, station 10's extensions ring 10-1 first, then 10-2, 10-3, and 10-4. A station is considered busy when all extensions are being used.</p> <p>Note The naming convention for DKT assignments within Toshiba is Directory Numbers. For clarity and ease of understanding, the terms Extension Number and Phantom Extension Number will be used in this document in lieu of PDN and PhDN.</p>
Arial Bold	Represents telephone buttons.
+	<p>shows a multiple PC keyboard or telephone button entry. Entries without spaces between them show a simultaneous entry.</p> <p>Example: Delete+Enter.</p> <p>Entries with spaces between them show a sequential entry.</p> <p>Example: # + 5.</p>
Tilde (~)	Means “through.” Example: 350~640 Hz frequency range.
See Figure 10	Grey words within the printed text denote cross-references. In the electronic version of this document (Toshiba Partner Portal website download), cross-references appear in blue hypertext.

Related Documents/Media

Note Some documents listed here may appear in different versions on the CD-ROM or in print. To find the most current version, check the version/date in the Publication Information on the back of the document's title page.

Refer to the following for more information:

- Strata CIX IPT/DKT Telephone User Guide
- Toshiba Partner Portal Website

Introduction

Related Documents/Media

Administrator Mode

1

This chapter contains some of the functions that can be performed using Administrator Mode.

Important! *These functions require Strata CIX release 4.1 or higher software.*

You can access the Administrator mode using DKT3000/3200/3500-series telephones. Toshiba recommends using any 2-line display telephone.

To access the Admin mode, the telephone must be enabled for this function in system programming by the telephone system administrator.

Functions

Using the soft keys on your telephone, you can program the following functions in Administrator mode:

- Phone Name – enter the Extension (PDN) name for any telephone in the Strata CIX
- Door Name – enter door phone name
- System SD/Name¹ – enables you to program system speed dial names
- Station SD/Name¹ – enables you to program station speed dial names for any station in the system
- Exchange Line Name – program Exchange line names
- DNIS Name – program DNIS names

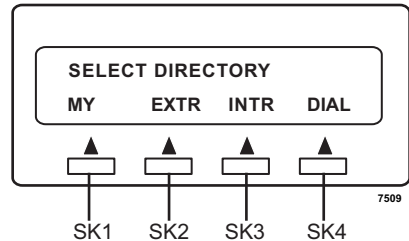
¹ The Admin telephone mode allows speed dial names to be programmed but the actual speed dial numbers are programmed using the speed dial programming procedures in this guide.

General Operation

➤ Use these buttons to navigate the different functions

LCD Soft keys

The IPT and DKT soft keys perform the same functions. This manual uses the IPT soft keys (SK) to refer to the soft keys on all telephones. For example, if an instruction references **SK1**, this means use the first soft key (from left to right) on the IPT and use Mode on the DKT. **SK2**, **SK3** and **SK4** equate to the second, third and fourth soft keys on the IPT or Page, Scroll and Feature on the DKT.



Navigation Button	Function
SK1 or Mode	Previous Menu; exit Admin mode
SK2 or Page	Previous Item/screen (Back) or move cursor to Left column
SK3 or Scroll	Next Item/screen (Forward) or move cursor to Right column
Hold	Enter

Notes

- You can use SK2 or SK3 (Page/Scroll) button to select Menu and Hold key to enter the Menu.
- You can enter digits or alphanumeric Name from Dial Pad.
- You can use the SK1 (Mode) button to back a screen
...or
you can use the Mode button while entering a Name or Number to go back to a Prompt Screen.

You can enter alphanumeric characters from the dial pad (shown in [Table 1](#)).

Note When using the Alphanumeric dial pad, use SK2 to Back Space and delete a character; use SK3 to enter a space in a name.

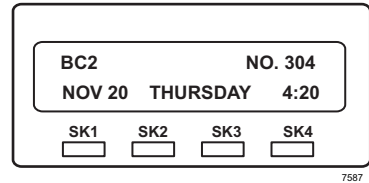
Table 1 Dial Pad Alphanumeric Characters

Dial Pad Buttons	Number of times to press the dial pad button				
	1	2	3	4	5
1	-	.	:	,	1
2	A	B	C	'	2
3	D	E	F	!	3
4	G	H	I	&	4
5	J	K	L	*	5
6	M	N	O	#	6
7	P	Q	R	S	7
8	T	U	V	?	8
9	W	X	Y	Z	9
0	()	&	/	0

Administrator Mode

► To enter Administrator Mode

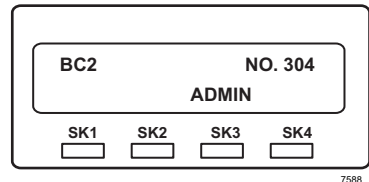
1. Press the **SK1** button.



2. Press **SK3**. (**SK3** is the “ADMIN” Soft Key. The “Password” prompt appears.

...or to return to the first screen, press **SK1**.

3. Enter the password + **Hold**.
Default password = 0000



Press **SK3**, the
ADMIN Soft Key

► To view the following Administrator Functions or LCD screens

Refer to “[General Operation](#)” on page 2 to navigate between functions.

PHONE NAME	Press Hold . Enter the DN ID number.	DN ID
	<p>This is the extension number (PDN) of the telephone.</p> <p>Enter the Phone Name that corresponds with that DN ID.</p> <p>Press Hold, pressing Hold will register the name and let you make the next Phone name entry.</p> <p>Press SK1 to cancel or go back. Note: Once the name is registered you cannot cancel the entry.</p> <p>Press SK2 to move to the previous display or SK3 to move to the next display.</p>	

<p>DOOR NAME</p>	<p>Press Hold. Enter the Door Phone number (01~24). Enter the Door name that corresponds with that Door Number. Press Hold, pressing Hold will register the name and let you make the next Phone name entry. Press SK1 to cancel or go back. Note: Once the name is registered you cannot cancel the entry. Press SK2 to move to the previous display or SK3 to move to the next display.</p>	<p>DOOR PHONE NO. 01</p>
<p>SYSTEM SD/NAME</p> <p>Note Remember to enter the speed dial name before entering the speed dial number.</p>	<p>Press Hold. Enter the Speed Dial Index (000~799). Press SK1 to return to the previous screen.</p> <p>Enter the alphanumeric name. Press Hold to register alphanumeric name corresponding to the entered speed dial index.</p>	<p>IDX 000</p> <p>IDX 000 04258536 TOSHIBA BC2</p>
<p>STATION SD/ NAME</p> <p>Note To enter a speed dial number, refer to Speed Dial in the Advanced section of this guide.</p>	<p>Press Hold. Enter the DN ID. This is the extension number (PDN) of the telephone.</p> <p>Pressing SK1 lets you return to the previous screen and Hold registers the entry. Enter the speed dial index (00~99). Enter the alphanumeric name. Press Hold to register alphanumeric name corresponding to the entered speed dial index.</p>	<p>DN ID 304</p> <p>DN 304 IDX 00 TOSHIBA BC2 304</p>
<p>EXCHANGE LINE NAME</p>	<p>Press Hold. Enter the Exchange Line number (1~264). Pressing SK1 lets you return to the previous screen and Hold registers the entry. Enter the alphanumeric name that corresponds to the Exchange Line Number.</p>	<p>CO LINE 304</p>

Administrator Mode

General Operation

DNIS NAME	Press Hold . Enter the ILG number (1~128).	ILG 003
	Pressing SK1 lets you return to the previous screen and Hold registers the entry. Enter the DDI number Enter the alphanumeric name that corresponds to the DDI Number Press Hold to register the entry.	ILG 003 DID

This chapter explains how to enter data for your IP and DKT telephones (IPT2010-SD and IPT2020-SD only).

Important!

- *The IPT2010-SD telephone should not be used to program the telephone system.*
- *Make sure you have the following information before doing any of the steps found in this chapter:*

IP address, subnet mask number, router address, Station ID, CIX Strata Net node number, IP address for the LIPU, etc.

Notes

You may want to enter a period or backspace when performing the following steps. While in telephone programming mode (Press **3+6+9+Hold** (simultaneously) to enter programming mode), you can use these buttons for the following functions:

- Press ***** to enter a period.
- Press **Vol ▼** to backspace. Press **Spkr** to cancel entry and start over.

FB Buttons

When you press **3+6+9+Hold** (simultaneously) to enter telephone programming mode, you may need to press Feature Buttons (**FB**). The following illustrations show you the location of these **FB** buttons on 20, 10, and 14 button telephones.

FB buttons for 20-button phones

IPT1020-SD, and IPT2020-SD



FB buttons for 10-button phones

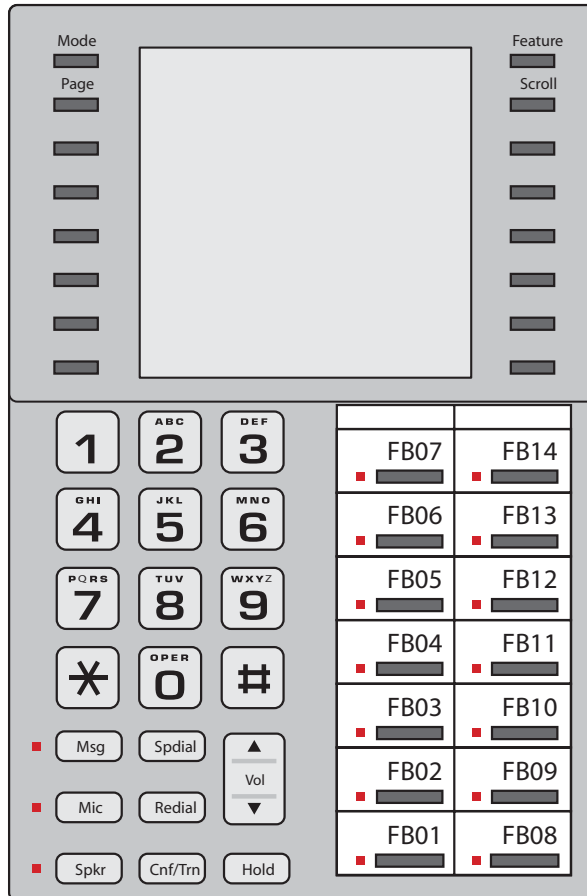
IPT2010



7734

FB buttons for 14-button phones

DKT3X14-SDL



5442UK

Telephone Programming Mode

The DKT3000/3200/3500-series and IPTs enable you to set a number of features directly from the phone, including: Call Waiting Tone (On/Off), Flex Key, Msg Key, LCD contrast, and Speakerphone/Microphone Room Noise Sensitivity (On/Off). “Telephone Programming Mode” programs settings on a ROM chip inside the telephone.

Note Some of the procedures use Feature Buttons (FB1, FB2, etc.). When your telephone is in Programming Mode, the flexible buttons are numbered as Feature Buttons, as shown at the beginning of this chapter.

- **To place your telephone in Programming Mode**
 - Press **3+6+9+Hold** simultaneously. The LCD displays “DKT PROGRAM MODE” and “SELECT=”. Your phone will not ring if it receives a call while in Programming Mode.
- **To exit from Programming Mode**
 - Go Off- and On-hook or wait for 30 seconds for Programming Mode to automatically time out.

Telephone Program Option Reset

This function resets all Programming Mode option settings to their default setting.

1. Press **3+6+9+Hold** (simultaneously).
2. Press **Vol ▲ + Msg (Msg LED On means reset is set to activate)**
3. Press **Hold** to activate reset.
4. Go off-hook, then on-hook to exit the program mode.

Dial Pad and Button Beeps

Digital telephones can emit a “beep” sound whenever a dial pad or feature button is pressed. The “beeps” are On by default. Follow these steps to turn the “beeps” On or Off on DKT3000/3200/3500-series DKTs.

1. Press **3+6+9+Hold** (simultaneously).
2. Press **0**.
3. Press Feature Button 1 (FB1) to toggle On/Off.
FB1, LED On: buttons beep.
FB1, LED Off: buttons do not beep.
4. Press **Hold** to set the option.
5. You must also go off-hook, then on-hook to exit the program mode.

Speakerphone/Microphone Sensitivity Adjustment

When you are using the speakerphone, high ambient noise levels may cause the party you are talking with to be cut off frequently. If this happens, follow these steps to lower the sensitivity of the microphone on a DKT3000/3200/3500-series telephone. The default is normal sensitivity.

1. Press **3+6+9+Hold** (simultaneously).
2. Press **0**.
3. Press Feature Button 3 (FB3) to toggle On/Off.
FB3, LED On: Lower sensitivity
FB3, LED Off: Normal sensitivity
4. Press **Hold** to set the option.
5. Go off-hook, then on-hook to exit the program mode.

Call Waiting and Camp-on Ring Tone Over Handset/Headset Option

Call Waiting and Camp-on tones are sent to a busy telephone's speaker to indicate that a call is waiting. Call Waiting and Camp-on Tones can be sent, as an option, to the telephone handset or headset, in addition to the speaker. Follow these steps to turn handset/headset Call Waiting and Camp-on tone On/Off for a DKT3000/3200/3500-series telephone. The default is Off.

1. Press **3+6+9+Hold** (simultaneously).
2. Press **0**.
3. Press Feature Button 4 (FB4) to toggle On/Off.
FB4, LED On: Call Waiting tone
FB4, LED On: No Call Waiting tone
4. Press **Hold** to set the option.
5. Go off-hook, then on-hook to exit the program mode.

Reset and Adjust the LCD Contrast

► To adjust LCD Contrast for the LCD Telephones

1. Press **3+6+9+Hold** (simultaneously).
2. Press and hold down the **Mic** button, and press and release **Vol ▲** or **Vol ▼** repeatedly.

Each time you press **Vol ▲** or **Vol ▼**, the contrast increases or decreases. There are eight steps in either direction. To return to the middle setting, repeat "Step 1" above.

3. Press **Hold** to reset the LCD contrast.
4. Go off-hook, then on-hook to exit the program mode.

► To reset LCD Contrast for the DKT3014-SDL/3214-SDL

1. Press **3+6+9+Hold** (simultaneously).
2. Press **SK1/Mode**.
3. Press **Msg** so that the **Msg** LED is On.

4. Press **Hold**. This sets the LCD lightness/darkness contrast on the middle setting.
5. Go off-hook, then on-hook to exit the program mode.

► **Test the Display on Large LCD Telephones (DKT3014-SDL only)**

1. Press **3+6+9+Hold** (simultaneously).
2. Press **SK2**.
3. Press **1**. LCD screen is blank.
4. Press **2**. Each segment shows three vertical lines, in all eight rows.
5. Press **3**. Each segment contains five short horizontal lines, in all eight rows.
6. Press **4**. Each segment contains a pattern of small dots, in all eight rows.
7. Press **5**. All of the available characters, including numbers, display.

Changing the Functions of the Flex and Msg Buttons

You can change the functions of the Flex and Msg buttons on your DKT3001 telephone to be different from the defaults.

Redial/Feature Button Activation/Deactivation

Your **Flex** button has been set to act as a **Redial** button by default. However, you can reprogram the **Flex** button to work as Flexible Button, as it set in system programming. These steps enable you to change how the button functions.

1. Press **3+6+9+Hold** (simultaneously).
2. Press **0 7**.
3. Press **Msg** to toggle On/Off

Msg LED On: **Flex** button works as Feature Button (FB3)

Msg LED Off: **Flex** button works as a **Redial** button.

4. Press **Hold** to set the option.
5. Go off-hook, then on-hook to exit the program mode.

Notes

- If you program the Flex button to work as Flexible Button 3, you can press * to redial.
- If the Flex button is changed to function as FB3, FB3 must be assigned to a feature by your system administrator in System Programming.

Msg/Feature Button Activation/Deactivation

Your **Msg** button has been set by default to work as a **Msg** button; however, you can reprogram it to work as Feature Button.

1. Press **3+6+9+Hold** (simultaneously).
2. Press **0 8**.
3. Press **Msg** to toggle On/Off.

Msg LED On: **Msg** operates as Feature Button

Msg LED Off: Works as a **Msg** button.

4. Press **Hold** to set the option.
5. Go off-hook, then on-hook to exit the program mode.

Note If the Msg button is changed to function as FB2, FB2 must be assigned to a feature by your system administrator in System Programming.

Headset Transmitter Level Adjustment

- **To set the level of the Headset Transmitter for DKT3000/3200/3500-series telephones**

Important! *Unplug headset from modular jack of BHEU1A, when making the setting from the table below.*

1. Press **3+6+9+Hold** (simultaneously).
2. Press **#**.
3. Press **FB1, FB2, FB3** (see table below), and check these LEDs.
4. Press **Hold**. In Off-hook, it returns to normal mode.

Table 2 Volume Level Transmitted from Headset Microphone

LEDS			BHEU SW2	
FB1	FB2	FB3	NORMAL (default)	LOW
OFF	OFF	OFF	+12 dB	-11 dB
ON	OFF	OFF	+8 dB	-15 dB
OFF	ON	OFF	+4 dB	-19 dB
ON	ON	OFF	0 dB	-23 dB (default)
OFF	OFF	ON	-4 dB	-27 dB
ON	OFF	ON	-8 dB	-31 dB
OFF	ON	ON	-12 dB	-35 dB
ON	ON	ON	-16 dB	-39 dB
Note ON means LED ON			OFF means LED OFF	

Important!

- *On the IPTs, the soft keys do not have names such as Page, Mode, Scroll and Feature. In the manual, the soft keys are referenced as SK1, SK2, SK3 and SK4 from Left to Right.*
- *On the IPT2010-SD, use the soft key SK3 (Scroll) to switch between FB1~FB10 and FB11~FB20.*

Initialising the IP Telephone

CAUTION! If you initialise the IP telephone, all settings return to default.

1. Press **3+6+9+Hold** (simultaneously).
2. Press **Vol ▲**.

Note Steps 3~5 are optional.

3. Press **FB01** to initialise the telephone's function settings (LED On = initialise, LED Off = don't initialise). See "[IP Telephone Function Settings](#)" on page 19 for details.
4. Press **FB02** to initialise LCD contrast setting (LED On = initialise, LED OFF = don't initialise).
5. Press **FB03** to initialise the telephone's IP network connection settings (LED On = initialise, LED Off = don't initialize). See "[IPT Setup Instructions](#)" below for details.
6. Press **Hold** again to complete the initialisation process.
7. Go off-hook and hang up.

IPT Setup Instructions

1. Press **3+6+9+Hold** (simultaneously).
 2. Press **2**, then press **Hold** to select the Network Setting Mode.
 3. Press **FB1** to see if the DHCP server is in use or not. Press one of the following (normally, use **1**: manual setting):
 - 1**: manual setting, then press **Hold**.
 - 2**: auto setting by DHCP server, then press **Hold**.
 4. Press **FB2**. Enter the IP address for this IPT and press **Hold**. To enter the period in an IP address, press the ***** button on your dialpad (e.g., if the IP address is “192.168.1.241,” press **192*168*1*241**).
 5. Press **FB3**. Enter the subnet mask number and press **Hold**. (e.g., if the subnet mask address is “255.255.255.0,” press **255*255*255*0**).
 6. If the IPT is connected to a router or other gateway device, press **FB4**. Enter the router address, then press **Hold**. Only used if Step 3, above, is set for manual setting.
 7. Press **FB5**. Enter a Station ID for the IPT and press **Hold**. This is usually your telephone’s primary number (PDN).
 8. Press **FB6** to enter the CIX Strata Net node number of the CIX node that contains the LIPU to which this IPT interfaces, then press **Hold**. This FB setting is for CIX networked systems only.
 9. Press **FB11** for LIPU address mode. Press one of the following:
 - 1**: manual setting, then press **Hold**. Press **FB12** and enter the BIPU IP address, then press **Hold**. (e.g., if the LIPU address is “192.168.1.241,” enter it in this format **192*168*1*241**).
 - 2**: auto setting by broadcast, then press **Hold**.
 - 3**: auto setting by multicast (IPT doesn’t support multicast setting in this first release), then press **Hold**.
 10. Press **Hold** again to set all the above data.
 11. Go off-hook and hang up. The IPT will search for the LIPU, initialise and then set the IP address (from 20 sec. to 60 sec.). Time, Date and PDN displays on LCD when the information is set.
- Note** See “[IP Telephone Start Up Sequence](#)” below for an explanation of the LCDs that you will see during this procedure.

IP Telephone Start Up Sequence

After the IP telephone network setting has been programmed, the following displays occur after the IP telephone is hung-up:

Action	LCD Indication	Remarks
1. IPT initialises.	INITIALISING PLEASE WAIT...	
2. IPT searches for IP address.	IPaddress setting...	<p>Possible errors:</p> <ul style="list-style-type: none"> • IP address is not set. • No DHCP server, etc. <p>If error occurs, IP address setting is carried out continuously.</p>
3. IPT searches for BIPU/ LIPU.	Searching BIPU...	<p>Retries every 10 seconds.</p> <p>Possible errors:</p> <ul style="list-style-type: none"> • BIPU is not found "time out." • BIPU is not found (Station ID automatic setting). • BIPU is not found (StationID manual setting) • Multicast address is not registered (BIPU IP address setting mode is automatic setting by multicast) • BIPU IP address is not registered (BIPU IP address setting mode is manual setting.

Action	LCD Indication	Remarks
4. Registering to BIPU	<div style="border: 1px solid black; padding: 2px; display: inline-block;">Registering IPT</div>	When registering fails, IPT retries by starting at Step 2 again. Error message: "Exxx" is error number. <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-left: 20px;">Registering IPT Can't register IPT:EXXX</div>
5. Registering completion - normal action.	LCD data is indicated from the system. Example: <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-left: 20px;">NO. 205 FEB 28 THURSDAY 01:09</div>	

IP Telephone Function Settings

These steps enable you to turn On/Off button beeps, room noise cancellation, handset Busy Override, and headset volume control. You can also adjust the setting for carbon headsets vs. non-carbon headsets.

1. Press **3+6+9+Hold** (simultaneously).
2. Press **0** then **Hold**.
3. Press the Feature Buttons to turn the LEDs On/Off (see [Table 3](#)).

Table 3 IP Telephone Function Settings

FB	LED ON	LED OFF
FB1	Buttons beep.	Buttons do not beep.
FB3	Speakerphone/Microphone sensitivity is lower.	Speakerphone/Microphone sensitivity is normal.
FB4	Enable handset Busy Override (BOV) tone.	Disable handset BOV.
FB11	Turn LED On if carbon headset is attached.	Turn LED Off if carbon headset is not attached.

4. Press **Hold** to set the above data.
5. Go off-hook and hang up.

Setting the IP Telephone Headset Transmit Volume

1. Press **3+6+9+Hold** (simultaneously).
2. Press **#**.
3. Press the Feature Buttons to turn the LEDs On/Off for the desired volume transmission level (see [Table 4](#)).

Table 4 Volume Level Transmitted from Headset Microphone

LEDS			Transmit Level
FB3	FB2	FB1	
ON	ON	ON	Level 7 (min.)
ON	ON	OFF	Level 6
ON	OFF	ON	Level 5
ON	OFF	OFF	Level 4
OFF	ON	ON	Level 3 (initial value)
OFF	ON	OFF	Level 2
OFF	OFF	ON	Level 1
OFF	OFF	OFF	Level 0 (max.)

4. Press FB4 for handset voice output in speakerphone mode (LED On = with, LED Off = without).
5. Press **Hold** to set the above data.
6. Go off-hook and hang up.

Viewing IP Telephone Terminal Information

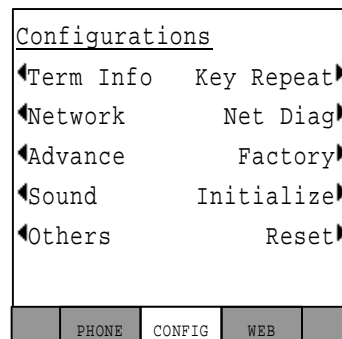
1. Press **3+6+9+Hold** (simultaneously).
2. Press **1**, then press **Hold**.
3. Press **FB1** to view IPT firmware version (application and boot versions, read only).
4. Press **FB2** to view IPT MAC address (read only).
5. Go off-hook and hang up.

This chapter contains instructions to configure the IPT2008-SDL telephone. All instructions found in this chapter pertain to the items found in the CONFIG tab of the IPT2008-SDL telephone.

Configurations

- Select the CONFIG tab. The screen shown right displays. This is the Configurations main screen
- **To access any of the screens that relates to an item on the Configurations screen**
 - Press the soft key that corresponds to the item. The details pertaining to that item display.

Note The following table explains each of the items displayed on the Configurations screen.



ITEM	INFORMATION DISPLAY
Term Info	Displays the Software Version, the MAC address and the Regional Code. You can press the EXIT soft key to go back to the Configurations screen. Note This screen is for display only and you cannot make any changes to the settings.

ITEM	INFORMATION DISPLAY
Network	Displays or sets the DHCP, IP Address, Subnet, the default gateway, station information and LIPU Address.
Advance	Displays the Primary Name Server, the Secondary Name Server, GRQ Port, RRQ Port, and AP Address
Sound	Displays settings for Keybeep, Roam Noise, Handset BOV, and Carbon Headset
Others	
Key Repeat	
Net Diag	
Factory	
Initialise	
Reset	

Loop Back Test

- Select Configuration > Network Diagnosis > Loop Back Test.

Notes

- Press EXIT to move back a screen.
- An IP address of current Ping send-to party is displayed in the second line.
- The result of Ping executed last is displayed in the third line. (Ping result is confirmed only on this screen.)

```
Loop Back Test
Ping to 192.168.0.77
Last Result: 10/10

◀Ping Address Setting
◀Ping Start

[EXIT]▶
```

PHONE	CONFIG	WEB
-------	--------	-----

► **Setting Ping Send-to Address**

1. Press the Ping Address soft key. The Ping Address Setting Screen displays (shown right).
2. Using the dial pad, press 1 ~ 0 and * to enter an IP address or change an IP address. Input the delimiter “.” by pressing * key.

Press **Vol ▼** to backspace.

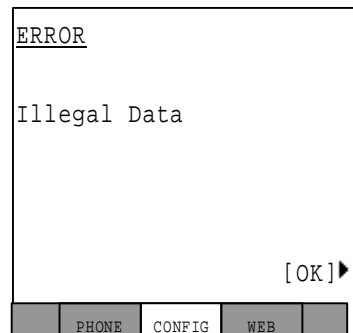
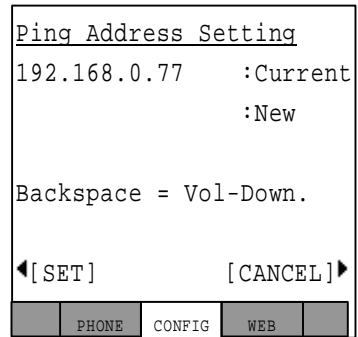
3. Press **SET** soft key to go back to the Loop Back Test Screen (after rewriting the NV-RAM data if an IP address is changed). (“Ping to xxx.xxx.xxx.xxx” will display the IP address after the setting change.)

Note Pressing the SET soft key can cause the screen to move to the Input Error Screen if an error occurred when entering the IP address (shown right).

4. Press the OK soft key on the Error Screen to go to the Address Setting Screen.

Note In five seconds after displaying the Input Error Screen, the screen automatically moves to the Address Setting Screen. (The address that has resulted in an input error will be displayed as it is when moving to the Address Setting Screen.)

5. Select the CANCEL soft key to cancel the intended setting change and to move to the Loop Back Test Screen without rewriting the NV-RAM data.

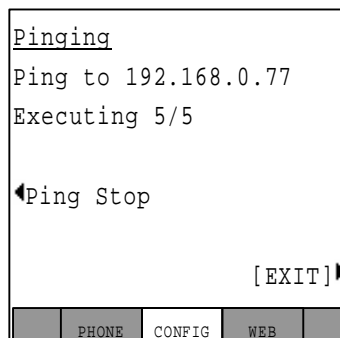


Ping Start and Stop

- From the Loop Back Test Screen, press the Ping Start soft key. The Pinging Screen displays (shown right) and Pinging starts.

Notes

- Pinging is attempted ten times on the Pinging Screen and is stopped automatically. The screen will move to the Loop Back Test Screen. The result is displayed in the third line of the Loop Back Test Screen as “Last result n/10 (successful operations/10).”
- During Ping execution, the progress is displayed by showing “Executing n/10 (number of successful operations/number of trial operations)” in the third line on the Pinging Screen.
- Pressing the “Ping Stop” or “EXIT” key on the Pinging Screen will stop Pinging and cause the screen to move to the Loop Back Test Screen. Then the result will be displayed.

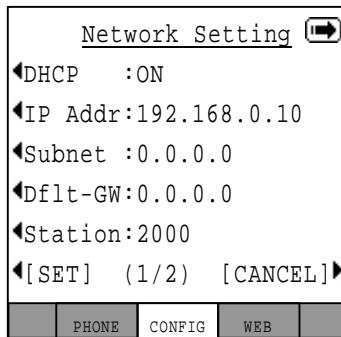


Network Settings

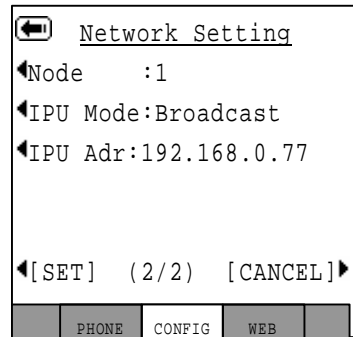
► To access the Network Setting screens

- Select the CONFIG tab, then Network soft key.

Note There are two screens for Network Settings (shown below). Use the “→” and “←” soft keys to move from one screen to another and to go back to the Configurations main screen.



Screen 1



Screen 2

The general operation on the Network Settings screens is as follows:

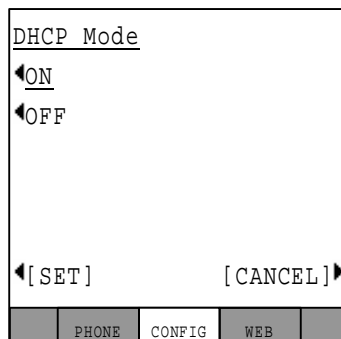
- To view details of an item displayed on the screens above, press the soft key that corresponds to that item.
- Press the SET soft key to rewrite the NV-RAM data if any setting of a minor item is changed. The screen will move to the Resetting Selection Screen. (The Resetting Selection Screen will be described in detail later.)
- Press the SET soft key to go to the Configurations Screen without rewriting the NV-RAM data if no setting change of a minor item is made.
- Press the CANCEL soft key to cancel all the intended setting changes in the minor items and to go to the Configurations Screen without rewriting the NV-RAM data.

DHCP Server Settings

1. Select Configuration > Network > DHCP. The DHCP Mode screen displays.

The current default set is underlined.

2. Press the ON or OFF soft keys to change the set value.
3. Press the SET soft key to accept the change.
...or press the CANCEL soft key to cancel the change.



Notes

- The Network Setting Screen displays when you press SET or CANCEL.
- DHCP is underlined in the display if you changed the setting.
- If the DHCP setting is changed from ON to OFF, then the "IP Addr" setting on the Network Setting screen will be initialised to the initial value.
- The IPT2008-SDL gets its IP address, Subnet mask, Default Gateway, DNS server address from DHCP server.

IP Address

- Select Configuration > Network > IP Addr. The IP Address screen displays (shown right). The current IP Address displays.

- **To change settings on the screen**

The following applies to the IP Address, Subnet Mask, Default Gateway, and Primary DNS Server.

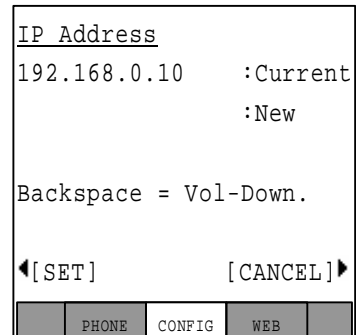
1. Use the dial pad (1~0, *) to enter a new IP address.

Use * on the dial pad to enter a period (.) in an IP address.

2. Press the SET soft key to select the setting change and go back to the Network Setting Screen.

On the Network Setting Screen, the item you changed will be underlined in the display (in this case the IP Address).

3. Pressing the SET soft key can give you an Error Screen if you incorrectly entered the address.
4. Press the OK soft key on the Error Screen to correct the entry. Five seconds after the Error Screen displays, the screen automatically goes back to the appropriate setting screen (in this case the IP Address) and the address that resulted in an error will be displayed.
5. Press the CANCEL soft key to cancel the setting change and to go to the Network Setting screen.



Subnet Mask

1. Select Configuration > Network > Subnet. The Subnet Mask screen displays (shown right). The current subnet displays on the one-line text field.
2. Follow the steps to change settings on [page 27](#).

<u>Subnet Mask</u>			
255.255.255.0	:	Current	
	:	New	
Backspace = "Vol-Down".			
◀[SET]		[CANCEL]▶	
	PHONE	CONFIG	WEB

Default Gateway Address

1. Select Configuration > Network > Dflt-GW. The Default GW Address screen displays (shown right). The current default Gateway Address displays on the one-line text field.
2. Follow the steps to change settings on [page 27](#).

<u>Default GW Address</u>			
0.0.0.0	:	Current	
	:	New	
Backspace = Vol-Down.			
◀[SET]		[CANCEL]▶	
	PHONE	CONFIG	WEB

Station ID

- Select Configuration > Network > Station.
The Station ID screen displays (shown right).
The current Station ID displays.

➤ To Change or Add Information on this screen

1. Enter the New Station ID to change or add a Station ID.
2. Press the SET soft key to accept the change ...or press the CANCEL soft key to cancel the change and go to the Network Setting screen.

Station ID			
2000	:	Current	
	:	New	
Backspace = Vol-Down.			
◀[SET]			[CANCEL]▶
PHONE	CONFIG	WEB	

Notes

- Use the dial pad (1~0) to change or enter a new Station ID. Press **Vol ▼** to backspace.
- You can enter a maximum of seven digits.
- Pressing the SET soft key can give you an Error Screen if you incorrectly entered the Station ID.
- Press the OK soft key on the Error Screen to correct the entry. Five seconds after the Error Screen displays, the screen automatically goes back to the appropriate setting screen (in this case the IP Address) and the address that resulted in an error will be displayed.

Node Number

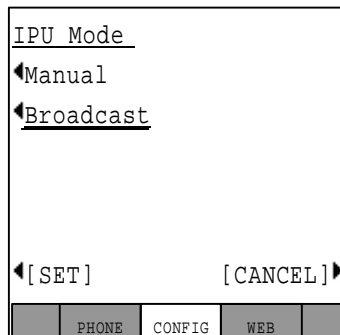
1. Select Configuration > Network Setting Screen 2 > Node. The current Node displays (shown right).
2. Enter the Node. You must be first program this node in eManager, Program 150, FB09.
3. Press the SET soft key to accept the change ...or press the CANCEL soft key to cancel the change and go to the Network Setting screen.

Note Refer [Station ID](#) notes above.

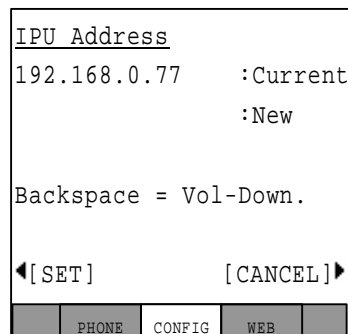
Node			
1	:	(Current)	
	:	(New)	
Backspace = Vol-Down.			
◀[SET]			[CANCEL]▶
PHONE	CONFIG	WEB	

CIX System /IPU Address Mode

1. Select Configuration > Network Setting Screen 2 > IPU Mode. The IPU screen displays (shown right).
2. Press the Manual or Broadcast soft key to change the set value. The value set is underlined in the display.
3. Press the SET soft key to accept the change ...or press the CANCEL soft key to cancel the change and go to the Network Setting screen.

**CIX System/IPU Address Screen**

1. Select Configuration > Network Setting Screen 2 > IPU Address. The IPU Address displays (shown right).
2. Follow the steps to change settings on [page 27](#).

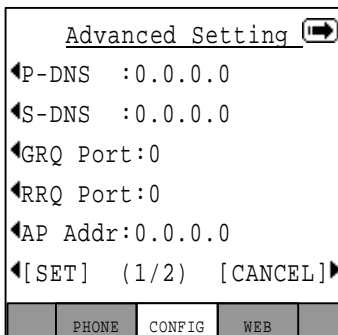


Advanced Network Settings

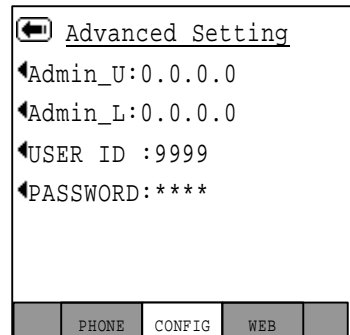
➤ **To access the Advanced Network Setting screens**

➤ Select the CONFIG tab, then Advanced soft key.

Note There are two screens for Advanced Settings (shown below). Use the “→” and “←” soft keys to move from one screen to another, and to go back to the Configurations main screen.



Screen 1



Screen 2

The general operation on the Network Settings screens is as follows:

- To view details of an item displayed on the screens above, press the soft key that corresponds to that item.
- Press the SET soft key to rewrite the NV-RAM data if any setting of a minor item is changed. The screen will move to the Resetting Selection Screen. (The Resetting Selection Screen will be described in detail later.)
- Press the SET soft key to go to the Configurations Screen without rewriting the NV-RAM data if no setting change of a minor item is made.
- Press the CANCEL soft key to cancel all the intended setting changes in the minor items and to go to the Configurations Screen without rewriting the NV-RAM data.

IP Address for DNS Server (Primary Name Server)

Note If DHCP Mode is ON, you don't have to set any parameters for the DNS server.

1. Select Configuration > Advanced > P-DNS. The Primary DNS Address screen displays (shown right).
2. Follow the steps to change settings on [page 27](#).

<u>Primary DNS Address</u>			
192.168.0.234	:	Current	
	:	New	
Backspace = Vol-Down.			
◀[SET]		[CANCEL]▶	
PHONE	CONFIG	WEB	

IP Address for DNS Server (Secondary Name Server)

1. Select Configuration > Advanced > P-DNS. The Secondary DNS Address screen displays (shown right).
2. Follow the steps to change settings on [page 27](#).

<u>Secondary DNS Address</u>			
192.168.0.235	:	Current	
	:	New	
Backspace = Vol-Down.			
◀[SET]		[CANCEL]▶	
PHONE	CONFIG	WEB	

GRQ Port Number

1. Select Configuration > Advanced > GRQ Port. The current GRQ Port Number displays (shown right).
2. Enter the New number.
3. Press the SET soft key to accept the change ...or press the CANCEL soft key to cancel the change and go to the Network Setting screen.

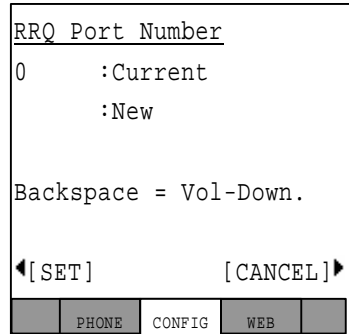
Note For other notes, refer to [“Station ID” on page 29](#).

<u>GRQ Port Number</u>			
0	:	Current	
	:	New	
Backspace = Vol-Down.			
◀[SET]		[CANCEL]▶	
PHONE	CONFIG	WEB	

RRQ Port Number

1. Select Configuration > Advanced > RRQ Port.
The current RRQ Port Number displays (shown right).
2. Enter the New number.
3. Press the SET soft key to accept the change ...or press the CANCEL soft key to cancel the change and go to the Network Setting screen.

Note For other notes, refer to “Station ID” on [page 29](#).



Application Server Address

1. Select Configuration > Advanced > AP Addr.
The current Application Server Addr screen displays (shown right).

Note The Application Server Address can be an IP Address or a URL (alphanumeric). See “Dial Pad Alphanumeric Characters” on [page 34](#) to enter the URL.

2. Follow the steps to change settings on [page 27](#).

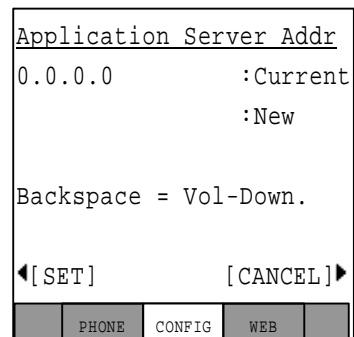


Table 5 Dial Pad Alphanumeric Characters

Dial Pad Buttons	Number of times to press the dial pad button								
	1	2	3	4	5	6	7	8	9
1	space								
2	a	b	c	A	B	C	goto a		
3	d	e	f	D	E	F	goto d		
4	g	h	i	G	H	I	goto g		
5	j	k	l	J	K	L	goto j		
6	m	n	o	M	N	O	goto m		
7	p	q	r	s	P	Q	R	S	goto p
8	t	u	v	T	U	V	goto t		
9	w	x	y	z	W	X	Y	Z	goto w
0 (1st)	.	/	:	@	-	_	~		!
0 (2nd)	"	#	\$	%	^	&	'	()
0 (3rd)	*	+	,	;	<	=	>	?	[
0 (4th)]	'	{		}	goto .			

Press **Vol ▼** button to back space
 Press **0** for all punctuation marks
 Press **#** to toggle between Alpha and Numeric modes
 Press ***** to enter a period.

External Administration Terminal IP Address Upper Bound Setting

This screen can be used to set an External Administration Terminal IP Address Upper Bound. External accessing is not enabled if the Upper and Lower bound IP addresses are initial values (0.0.0.0). External accessing is enabled if the External Administration Terminal IP address is within the Upper and Lower bound IP address range.

1. Select Configuration > Advanced Screen 2 > Admin_U. The External Administration Terminal IP Address Upper Bound Setting screen displays (shown right).
2. To change settings, follow the steps on [page 27](#).

Admin	Addr	Upper	Bound
0.0.0.0		:Current	
		:New	
Backspace = Vol-Down.			
◀[SET]		[CANCEL]▶	
PHONE	CONFIG	WEB	

External Administration Terminal IP Address Lower Bound Setting

This screen can be used to set an External Administration Terminal IP Address Upper Bound. External accessing is not enabled if the Upper and Lower bound IP addresses are initial values (0.0.0.0). External accessing is enabled if the External Administration Terminal IP address is within the Upper and Lower bound IP address range.

1. Select Configuration > Advanced Screen 2 > Admin_L. The External Administration Terminal IP Address Lower Bound Setting screen displays (shown right).
2. To change settings, follow the steps on [page 27](#).

Admin	Addr	Lower	Bound
0.0.0.0		:Current	
		:New	
Backspace = Vol-Down.			
◀[SET]		[CANCEL]▶	
PHONE	CONFIG	WEB	

External Administration User ID Setting

Use this screen to set a User ID. External accessing is enabled when the user can successfully log in with correct User ID and Password

1. Select Configuration > Advanced Screen 2 > USER ID. The External Administration User ID Setting screen displays (shown right).
2. Enter the New User ID to change or add a User ID.
3. Press the SET soft key to accept the change ...or press the CANCEL soft key to cancel the change and go to the Network Setting screen.

Note For other notes, refer to [“Station ID” on page 29](#).

External Administration Password Setting

- Select Configuration > Advanced Screen 2 > PASSWORD. The Password screen displays (shown right).

➤ To change or add a new password

Note The Password can be alphanumeric, see [“Dial Pad Alphanumeric Characters” on page 34](#) to enter the Password.

1. Press the Current soft key (left), then enter the Current Password.
2. Press the New soft key (left), then enter the New Password.
3. To confirm the change, re-enter the new password in the New Again field using the New Again soft key (left).
4. Press the SET soft key to accept the change ...or press the CANCEL soft key to cancel the change and go to the Network Setting screen.

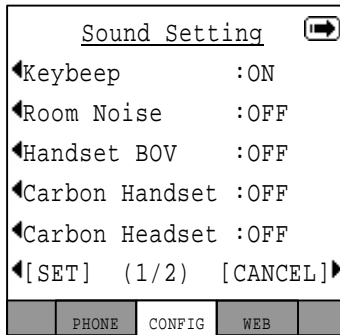
Note For other notes, refer to [“Station ID” on page 29](#).

Sound Settings

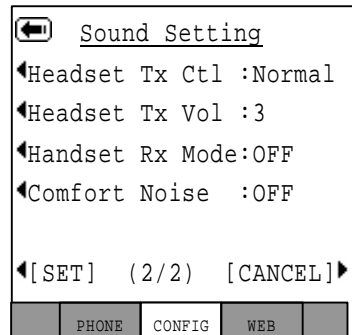
► **To access the Sound Setting screens**

► Select the CONFIG tab, then Sound soft key.

Note There are two screens for Sound Settings (shown below). Use the “→” and “←” soft keys to move from one screen to another and to go back to the Configurations main screen.



Screen 1



Screen 2

The general operation on the Network Settings screens is as follows:

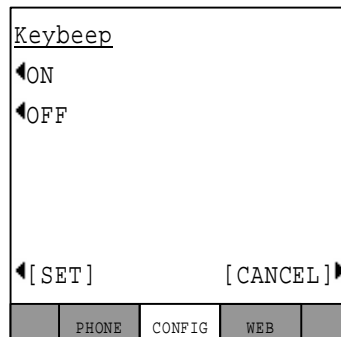
- To view details of an item displayed on the screens above, press the soft key that corresponds to that item.
- Press the SET soft key to rewrite the NV-RAM data if any setting of a minor item is changed. The screen will move to the Resetting Selection Screen. (The Resetting Selection Screen will be described in detail later.)
- Press the SET soft key to go to the Configurations Screen without rewriting the NV-RAM data if no setting change of a minor item is made.
- Press the CANCEL soft key to cancel all the intended setting changes in the minor items and to go to the Configurations Screen without rewriting the NV-RAM data.

Keybeep, Room Noise, Handset BOV, Carbon Handset, and Carbon Headset

Important! *The following steps apply to all of the above items.*

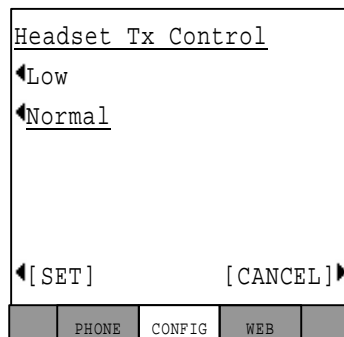
1. Select Configuration > Sound > Keybeep (or any of the above items). The appropriate screen displays.
2. Press the ON or OFF soft keys to change the set value.
3. Press the SET soft key to accept the change. ...or press the CANCEL soft key to cancel the change.

The setting is underlined in the Sound screen display.

**Headset Tx Control Setting Screen**

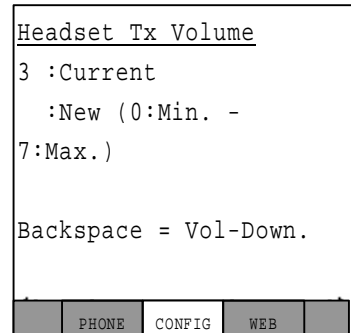
1. Select Configuration > Sound (screen 2) > Headset Tx Ctl. The Headset Tx Control screen displays.
2. Press the Low or Normal soft keys to change the set value.
3. Press the SET soft key to accept the change. ...or press the CANCEL soft key to cancel the change.

The setting is underlined in the Sound screen display.



Headset Tx Volume Setting Screen

- Select Configuration > Sound (screen 2) > Headset Tx Vol. The Headset Tx Volume screen displays.
- **To Change or Add Information on this screen**
 1. Enter the New field with the volume level.
 2. Press the SET soft key to accept the change ...or press the CANCEL soft key to cancel the change and go to the Sound Setting screen 2.



Notes

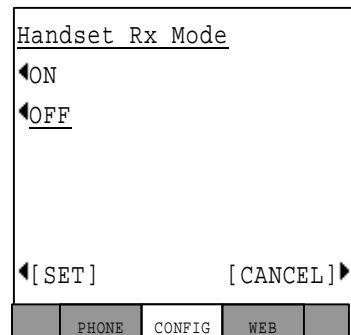
- Use the dial pad (1~0) to change or enter volume level. Press **Vol ▼** to backspace.
- You can enter a maximum of seven digits.
- Pressing the SET soft key can give you an Error Screen if you incorrectly entered the Station ID.
- Press the OK soft key on the Error Screen to correct the entry. Five seconds after the Error Screen displays, the screen automatically goes back to the Headset Tx Volume screen and the number that resulted in an error will be displayed.

Handset Rx Output Setting and Comfort Noise Setting

Important! *The following steps apply to the above two items.*

1. Select Configuration > Sound (screen 2) > Handset Rx Mode or Comfort Noise. The appropriate screen displays.
2. Press the ON or OFF soft keys to change the set value.
3. Press the SET soft key to accept the change. ...or press the CANCEL soft key to cancel the change.

The setting is underlined in the Sound screen display.

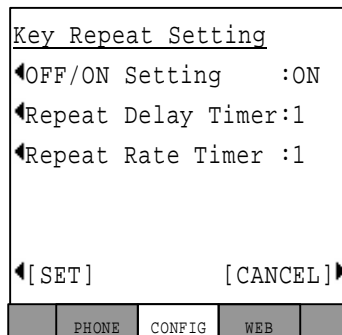


Key Repeat

- Select Configuration > Key Repeat. The Key Repeat screen displays.

The general operation on the Key Repeat screens is as follows:

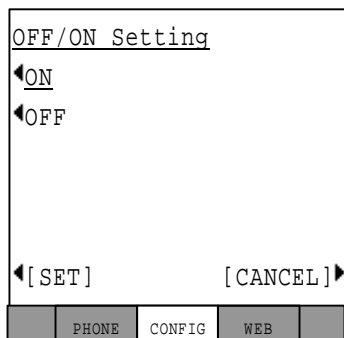
- To view details of an item displayed on the screens above, press the soft key that corresponds to that item.
- Press the SET soft key to rewrite the NV-RAM data if any setting of an item on this screen is changed.
- Press the CANCEL soft key to cancel all the intended setting changes in the minor items and to go to the Configurations Screen without rewriting the NV-RAM data.



Key Repeat OFF/ON

1. Select Configuration > Key Repeat > OFF/ON. The OFF/ON Setting screen displays.
2. Press the ON or OFF soft keys to change the set value.
3. Press the SET soft key to accept the change. ...or press the CANCEL soft key to cancel the change.

The setting is underlined in the Key Repeat Setting screen display.



Repeat Delay Timer and Repeat Rate Timer

Important! *The following steps apply to the above two items.*

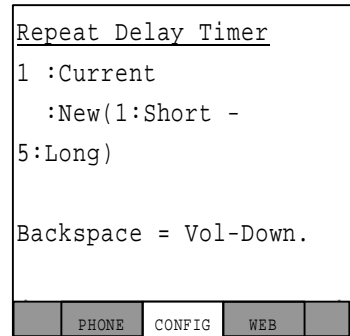
- Select Configuration > Key Repeat > Repeat Delay Timer or Repeat Rate Timer. The appropriate screen displays (shown right).

➤ To Change or Add Information on this screen

1. Enter the New Repeat Delay Timer to change the setting.

Note Use the dial pad 1~5 and **Vol ▼** to backspace.
 For Repeat Delay Timer: 1 (short) to 5 (long).
 For Repeat Rate Timer: 1 (fast) to 5 (slow)

2. Press the SET soft key to accept the change
 ...or press the CANCEL soft key to cancel the change and go to the Network Setting screen.



Notes

- Pressing the SET soft key can give you an Error Screen if you incorrectly entered the Station ID.
- Press the OK soft key on the Error Screen to correct the entry. Five seconds after the Error Screen displays, the screen automatically goes back to the Repeat Delay Timer or Repeat Rate Time screen and the number that resulted in an error will display.

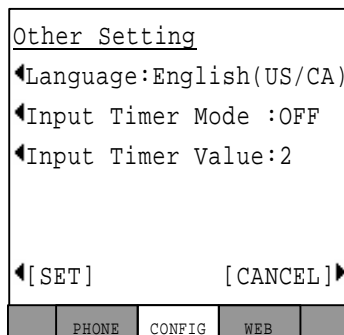
Other Setting

- Select Configuration > Others. The Others screen displays. This screen contains Language, Input timer Mode and Input Timer Value settings.

Notes

The general operation on the Key Repeat screens is as follows:

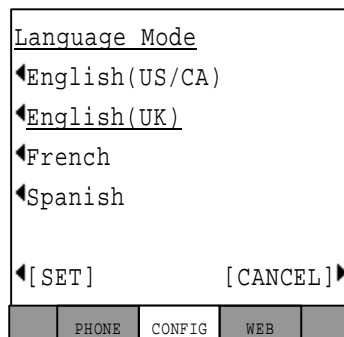
- To view details of an item displayed on the screens above, press the soft key that corresponds to that item.
- Press the SET soft key to rewrite the NV-RAM data if any setting of an item on this screen is changed. The screen goes back to the Configuration screen after rewriting the NV-RAM data.
- Press the CANCEL soft key to cancel all the intended setting changes in the minor items and to go to the Configurations Screen without rewriting the NV-RAM data.



Language Mode Setting

1. Select Configuration > Others > Language. The Language Mode screen displays.
2. Press the English (US/CA), English (UK), French or Spanish soft keys to change the set value.
3. Press the SET soft key to accept the change. ...or press the CANCEL soft key to cancel the change.

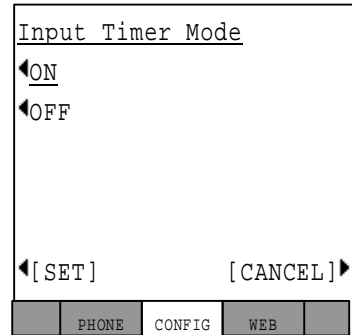
The setting is underlined in the Key Repeat Setting screen display



Input Timer Mode Setting Screen

1. Select Configuration > Others > Input Timer Mode. The Input Timer Mode Setting screen displays.
2. Press the ON or OFF soft keys to change the set value.
3. Press the SET soft key to accept the change. ...or press the CANCEL soft key to cancel the change.

The setting is underlined in the Others Setting screen display.



Input Timer Value Setting Screen

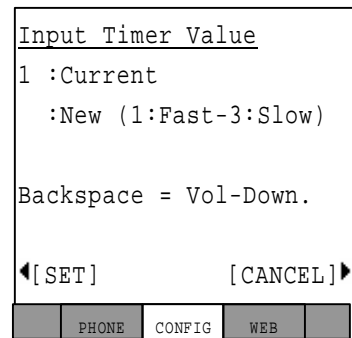
- Select Configuration > Others > Input Timer Value. The appropriate screen displays (shown right).

➤ To Change or Add Information on this screen

1. Enter the New Repeat Delay Timer to change the setting.

Note Use the dial pad 1~3 and **Vol ▼** to backspace. For Input Timer Value: 1 (fast) to 3 (slow)

2. Press the SET soft key to accept the change ...or press the CANCEL soft key to cancel the change and go to the Other Setting screen.



Notes

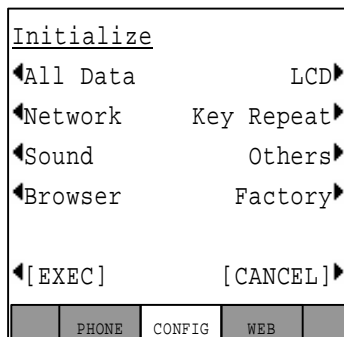
- Pressing the SET soft key can give you an Error Screen if you incorrectly entered the Station ID.
- Press the OK soft key on the Error Screen to correct the entry. Five seconds after the Error Screen displays, the screen automatically goes back to the Repeat Delay Timer or Repeat Rate Time screen and the number that resulted in an error will display.

Initialise

- Select Configuration > Initialise. The Initialise screen displays.

The general operation on the Key Repeat screens is as follows:

- To view details of an item displayed on the screens above, press the soft key that corresponds to that item.
- You can toggle between all the items found on the Initialise screen, except All Data. The item selected is underlined.
- Selecting the All Data soft key selects all the items displayed on the Initialise screen and all items are underlined.



Important! *Pressing the “All Data” key twice will not cancel the selection.*

- Pressing the EXEC soft key while “Network” is displayed underlined will initialise the selected item and will rewrite the NV-RAM data and cause the screen to move to the Resetting Selection Screen. (The Resetting Selection Screen will be described later.)
- Pressing the EXEC soft key any item except “Network” is displayed underlined will rewrite the NV-RAM data and go to the Configuration screen.
- If no setting change is made to the items and the EXEC key is pressed, the NV-RAM data will not be rewritten and goes to the Configuration screen.
- Pressing the CANCEL soft key will not initialize and goes to the Configuration screen.
- [Table 6 on page 45](#) shows the Initial values of Settings:

Table 6 IPT2008-SDL Default Settings

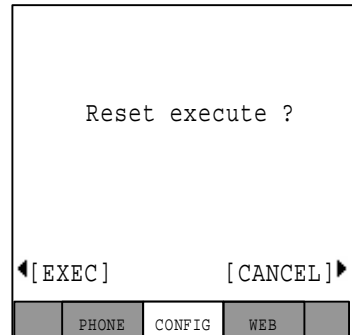
Major items		Minor items	Initial value
Network Diagnosis	1	Ping address	0.0.0.0
Network Setting (Basic)	1	DHCP server mode <ON/OFF>	ON
	2	IP address	127.0.0.1
	3	Subnet mask	255.255.255.0
	4	Default router address	0.0.0.0
	5	Station ID	blank
	6	Node number	blank
	7	Libra Server/IPU address setting <Manual / broadcast>	broadcast
	8	Libra Server/IPU IP address setting during manual setting	0.0.0.0
Network Setting (Advanced)	1	IP address setting for DNS Server (Primary Name Server)	0.0.0.0
	2	IP address setting for DNS Server (Secondary Name Server)	0.0.0.0
	3	GRQ port number <1024-65535>	1718
	4	RRQ port number <1024-65535>	1719
	5	IP address setting for application server	0.0.0.0
	6	External administration terminal IP address upper bound	0.0.0.0
	7	External administration terminal IP address lower bound	0.0.0.0
	8	External administration user ID	9999
	9	External administration password	9999

Table 6 IPT2008-SDL Default Settings

Major items		Minor items	Initial value
Sound Setting	1	Key beep <ON/OFF>	ON
	2	Room noise <ON/OFF>	OFF
	3	Handset BOV <ON/OFF>	OFF
	4	Carbon handset <ON/OFF>	OFF
	5	Carbon headset <ON/OFF>	OFF
	6	Headset Tx control <Normal / Low>	Normal
	7	Headset Tx volume <0:Min ñ 7:Max>	3
	8	Handset Rx output <ON/OFF>	OFF
	9	Comfort noise <ON/OFF>	ON
Key Repeat Setting	1	Key repeat <OFF/ON>	ON
	2	Repeat delay timer <1:Short ñ 5:Long>	1
	3	Repeat rate timer <1:Fast ñ 5:Slow>	1
Other Setting	1	Language mode <English (US/CA) / English (UK) / French / Spanish>	English(US/CA)
	2	Input timer mode <ON/OFF>	OFF
	3	Input timer value <1:Fast ñ 3:Slow>	<1:Fast ñ 3:Slow>
Factory Setting	1	ADM/DEBUG mode <DEBUG / ADM>	ADM
	2	Display/Key Test	
	3	Display mode <IPT2008 / DKT3014>	IPT2008

Reset

1. Select Configuration > Reset. The Reset screen displays
...or if you press the SET soft key when a setting change is made on the Network, Advanced and Initialise subsidiary screens.
2. Press EXEC to reset the terminal. “Terminal is reset. (Restart)” displays on the screen.
...or press CANCEL to go back to the Configurations screen.
3. Select restart.



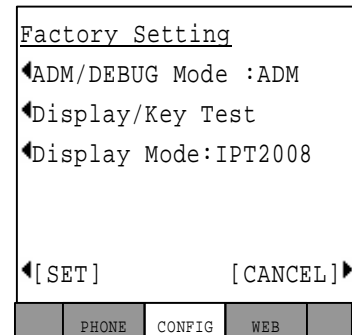
Note If the screen moves to the Configurations screen without resetting, even though there are changes in subsidiary item settings, then “Reset” will flicker (black and white) to prompt you to reset. Reset does not flicker if there were no setting changes in subsidiary items.

Factory

- Select Configuration > Factory. The Factory Setting screen displays.

The general operation on the Key Repeat screens is as follows:

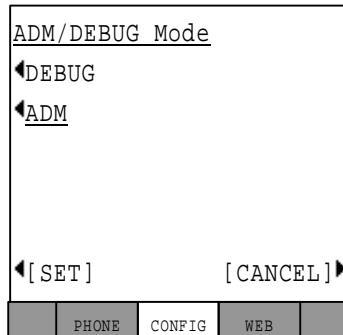
- To view details of an item displayed on the screens above, press the soft key that corresponds to that item.
- Press the SET soft key to rewrite the NV-RAM data if the ADM/DEBUG Mode is changed.
- Press the CANCEL soft key to cancel all the intended setting changes under Factory items and to go to the Configurations Screen without rewriting the NV-RAM data.



ADM/DEBUG Mode Screen

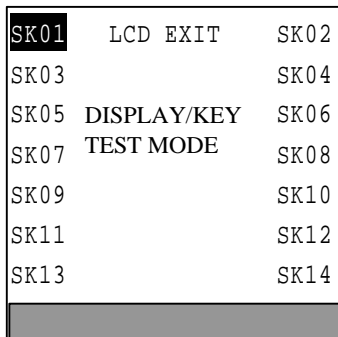
1. Select Configuration > Factory > IADM/DEBUG Mode. The ADM/DEBUG Mode screen displays.
2. Press the DEBUG or ADM soft keys to change the set value.
3. Press the SET soft key to accept the change. ...or press the CANCEL soft key to cancel the change.

The setting is underlined in the Factory Setting screen display.



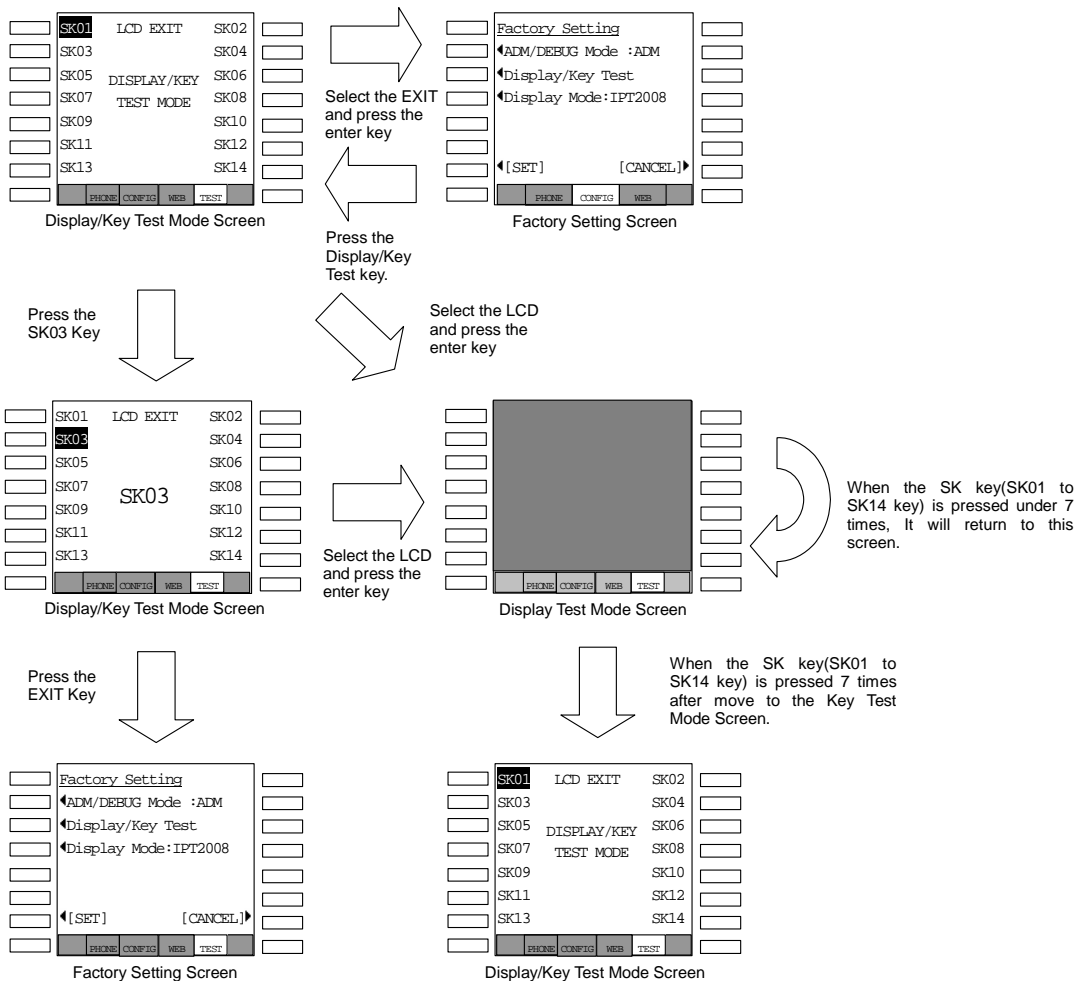
Display/Key Test

1. Select Configuration > Factory > Display/Key Test. The Display/Key Test Mode screen displays.
2. Press the soft key next SK01~SK14.
The SKxx displays in the center of the screen (Key Test mode shown right).
3. Select the LCD on the Display/Key Test Mode Screen, then the screen to move to the Display Test Mode Screen. (See [Figure on page 49](#)).



Notes

- Pressing the SK01~SK14 soft keys, seven test patterns appear.
 - When the SK01~SK14 soft key is pressed seven times, the screen returns to the Display/Key Test Mode Setting Screen.
4. Select the EXIT on the Display/Key Test Mode Screen to close the Display/Key Test Mode Screen and to go to the Factory Setting Screen (TEST tab disappears).



Display/Key Test Screens Flow Chart

IPT2008-SDL Settings

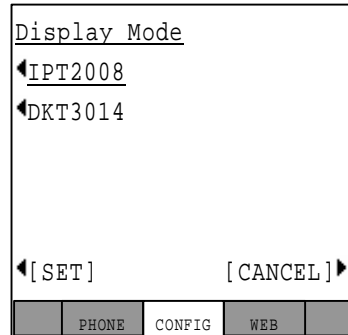
Configurations

Display Mode

1. Select Configuration > Factory > Display Mode.
The Display Mode screen displays.
2. Press the IPT2008 or DKT3014 soft keys to change the set value.

Press the **SET** soft key to accept the change.
...or press the **CANCEL** soft key to cancel the change.

The setting is underlined in the Factory Setting screen display.



Notes to Users

Step 1: Safety Approval

Toshiba Information System (U.K.) Ltd declare that the Strata CTX and CIX product ranges comply with the EEC's LVD directive, (Directive No. 73/23/EEC). The product has been assessed and found to comply with EN60950-1:2001.

The notes listed below form part of the products compliance with the aforementioned European Norm.

IMPORTANT SAFETY NOTES

- 1-1. Both systems must have an earth connection and must be hardwired to a main distribution point. The main cabinet must be earthed.
- 1-2. Table A-1 below identifies and classifies the ports available on the system:

Table A-1

Type of Circuit (EN60950 Classification)	Port Location	Port Description
SELV	Power SupplyBPSU672F/ APSU112F/CHSUB192F	For connection of external 24 volt batteries.
SELV	Processor BoardsACTU1F, ACTU2C, BECU1F, BBCU1F, BCTU2F, LCTU2C	For connection of external Music-On-Hold source and Ethernet LAN connection
SELV	AETS1A	Ethernet I/F for CTX100 only

Notes to Users

Step 1: Safety Approval

Table A-1 (continued)

Type of Circuit (EN60950 Classification)	Port Location	Port Description
SELV	PDKU2A/BDKU/BDKS/ BWDKU	For connection of Toshiba proprietary terminals.
SELV	BSIS1A	For connection of Voice Mail and Call Logging Equipment. RS232 ports.
TNV3	RSTU1F/RSTU3F/BSTU1F/ BSLU1F/BSLS1F/ASTU1F/ LSLU	For connection of Approved 2 wire devices.
TNV3	PCOU2F/PCOUS2FRCOU/ RCOS/RCOUS	For connection to PTO provided Loop Calling Unguarded Clear exchange lines.
TNV1	RBSU1A/ RBSU2A	2 Cct ISDN2, (TBR3), Basic Rate I/F. For connection to euro-ISDN services.
TNV1	RBSS1A & RBSS2A	2 Cct ISDN2, (TBR3), Basic Rate I/F. For connection to approved Euro-ISDN services & devices.
TNV1	RPTU1F/RPTU2F/BPTU1F	1 ccts ISDN30, (TBR4), primary rate I/F. For connection to euro-ISDN services..
TNV2	PACU2F/PACU3F	4 Cct AC15 Private Circuit I/F, (TBR17). For connection to PTO Private Circuit services.
TNV2	PEMU2F/REMU	4 Cct DC5 Private Circuit I/F, (TBR 17). For connection to PTO Private Circuit services.
SELV	BIOU1A	Contains various ports for connection of audio paging amplifiers, dry relay contacts to control external equipment.
SELV	BVPU1A/BIPUM2A/ BIPQ1A/LIPU-X1A	Voice Over IP interface cards. House Ethernet/ RS232 ports
SELV	Strategy DK, IES32, GVMU1F	Integrated Voice Mail unit. Houses R232 ports.
SELV	RRCU1A	Optical interface board for connecting remote cabinets.
SELV	BPCI1A	USB port for connection of PC for CTI
SELV	DKT2500/DKT3000/ DKT3500/IPT1020/ DKT3200/IPT2000	Headset ports on any of the range of key telephones.
TNV3	LPFU1A	8 port power failure Transfer Unit for BSTU and RCOU units.
TNV3	LCNU-C1A, LCNU-D1A	Passive extender units for CIX product

Table A-1 (continued)

Type of Circuit (EN60950 Classification)	Port Location	Port Description
SELV	LEXU-A, LEXU-B, LCNU-B1A	Passive extender units for CIX product

Any peripheral apparatus connected to the above ports must have the same EN60950 classification. ie.

- SELV ports must only be connected to SELV type ports.
 - TNV ports must only be connected to TNV type ports.
- 1-3. The Strata CTX670 system must be hardwired into a switched fused spur, (which should comply with the requirements of a disconnecting device as specified in the standard EN60950), the switch on the fused spur outlet shall be considered the AC power disconnection device. This spur must be installed in accordance with 16th edition of the IEE wiring regulations, aka BS7671:1992. Or the latest edition of this standard.

The Strata CTX100 system must be hardwired into a switched fused spur, (which should comply with the requirements of a disconnecting device as specified in the standard EN60950), the switch on the fused spur outlet shall be considered the AC power disconnection device. This spur must be installed in accordance with 16th edition of the IEE wiring regulations, aka BS7671:1992. Or the latest edition of this standard.

The Strata CIX Office system must be hardwired into a switched fused spur, (which should comply with the requirements of a disconnecting device as specified in the standard EN60950), the switch on the fused spur outlet shall be considered the AC power disconnection device. This spur must be installed in accordance with 16th edition of the IEE wiring regulations, aka BS7671:1992 or the latest edition of this standard.

- 1-4. Environmental Installation details.

The Strata CIX & CTX is designed to work within the following environmental conditions:

- Operating temperature 0oC to 40oC
- Humidity 20% to 80%

Step 2: EU Compliance

Toshiba Information Systems (U.K.) Ltd declare that the Strata CIX, CTX100 & CTX670 complies with the EEC's EMC directive, Directive No. 89/366/EEC as amended by directive 92/31/EEC. The product has been assessed and found to comply with the following product specific standards:

- EN55022:1998-9, EN/IEC61000-3-2/1995, EN/IEC61000-3-3/1995 (Emissions)
- EN52024:1998, EN61000-4-2/1995+A1:1998, EN61000-4-3/1997+A1:1998,
- EN61000-4-4/1995+A1:2001, EN61000-4-5/1995+A1:2001, EN61000-4-6/1995+A1:2001, (Immunity)

The notes listed below form part of the products' compliance with the aforementioned European Norm.

To ensure EU compliance the system must installed in accordance with the instructions in the "Installation and Maintenance" manual. In order to maintain compliance any shielded cables supplied and/or ferrite suppression cores must be used.

Equipment details Strata CTX/CIX100

Base Cabinet Dimensions:	Expansion Cabinet Dimensions:
Height - 370mm	Height - 370mm
Width - 303mm	Width - 230mm
Depth - 259mm	Depth - 259mm
Weight - 8.8kg (fully equipped)	Weight - 6.9kg (fully equipped)

Equipment details Strata CTX/CIX670

Base Cabinet Dimensions:	Expansion Cabinet Dimensions:
Height - 296mm	Height - 254mm
Width - 672mm	Width - 672mm
Depth - 270mm	Depth - 270mm
Weight - 14.1kg (fully equipped)	Weight - 13.2kg (fully equipped)

Equipment details Strata CIX Office/CIX200

Base Cabinet Dimensions:	Expansion Cabinet Dimensions:
Height - 89mm	Height - 89mm
Width - 483 mm (with ears)	Width - 483mm (with ears)
Width - 440 mm (without ears)	Width - 440mm (without ears)
Depth - 410mm	Depth - 410mm
Weight - 7.2kg (cabinet & PSU)	Weight 7.0kg (cabinet & PSU)

Warning! *This is a Class A product. In a domestic environment this Product may cause radio interference in which case the User may be required to take adequate measures*

Step 3: Type Approval

Toshiba Information Systems (UK), Ltd, (TIU), hereby declares that the Strata CTX & CIX product range complies with the requirements of the EC Directive 1999/5/EC, (aka Radio & Telecommunications Terminal Equipment Directive). A manufacture's Declaration under this Directive allows connection to the relevant Public Network Services and the right to place the Product on the market.

The Strata CTX and CIX is classified as "Call Routing Apparatus" it is intended to be connected to the various Public Telecommunications Network Services for the purpose of generating and terminating "calls". Table 2 below lists the intended purposes of the relevant system network interfaces

Table A-2

Interface Type	Network Service
PCOU2F/RCOU	Analogue Loop Calling Unguarded Lines. PD7002
RPTU1F/RPTU2F/BPTU1F	Euro ISDN30 service. Approved to TBR 4 & TBR12.
RBSU1A & RBSU2A	Euro ISDN2 service. Approved to TBR 3.
PACU2F/PACU3F	Analogue 4 wire Private Circuits, uses AC15 signalling. Approved to TBR 17.
PEMU2F/REMU	Analogue 4 wire Private Circuits, uses DC5 signalling. Approved to TBR 17.

The system must be installed in accordance with BS6701 parts 1 and 2, the latest issue shall apply.

Toshiba Information Systems claim approval to OFTEL general variation NS/V/1235/P/100020. The information contained in this paragraph supports Toshiba's claim:

The following features require the interconnection of 2 or more exchange lines.

- Multi-party conferencing
- Call Forward External*
- Translation of Un-used Extension numbers*
- DISA*

***Warning!** *These features can allow an Incoming callers access to an outgoing exchange line. There is an engineering programming parameter which can disable these features. In addition the DISA feature can be “password” protected. USERS SHOULD BE AWARE THAT THESE FEATURES CAN BE USED FOR FRAUDULENT PURPOSES. Please consult your supplier to ensure any necessary security measures are enabled.*

Step 4: Network Planning Information

4-1. Strata CIX & CTX Tone Plan.

Table A-3 below lists the characteristics of the tones and signals used in Strata CIX & CTX.

Table A-3

Tones/ Signal to:	Frequency	Cadence	Meaning
Exchange Line	Music On Hold 1209Hz	N/A 0.12 ON 2s Off	Call on Hold Internatl Hold Tone
DKT	1. 500/640Hz	1s On 3s Off OR 1sOn 1s Off	I/C PSTN call Opt.1 & 2.
	2. 1240/1560Hz	1s On 3s Off OR 1sOn 1s Off	I/C PSTN call Opt.3 & 4.
	3. 840/1060Hz	1s On 3s Off OR 1sOn 1s Off	I/C PSTN call Opt.5 & 6.
	4. 840/1060Hz (T1) & 1240/1560Hz (T2)	T1-0.5s ON T2-0.5s On 3s Off OR T1-0.5s ON T2-0.5s On 3s Off	I/C PSTN call Opt.7. I/C PSTN call Opt.8.
	5. 2000Hz mod by 10Hz		I/C PSTN to Busy DKT
	5. 500Hz	1s On 3s Off	I/C Int call Opt 1
	6. 1300Hz	1s On 1 S Off	I/C Int call Opt 2
	7. 1000/800Hz	0.6s On 1000Hz/0.6s On 800Hz	Call from D/phone A
	8. 1000/800Hz	0.6s On 1000Hz/0.6s 800Hz	Call from D/phone B
	9. 660/500	0.7s On 660Hz/0.7s On 500Hz	Call from D/phone B
	10. 2000Hz	1s On 3s Off	Busy/DND Override
	11. 2000Hz 10Hz Intrpt	1s On 1 S Off	Recall Indication
12. 860/1180Hz (T1) & 1300/1780Hz (T2)	T1-0.5s ON T2-0.5s On Repeat	Emergency Ring down Call	

Table A-3(continued)

Tones/ Signal to:	Frequency	Cadence	Meaning
2 Wire extns	1. 20Hz	0.4s On 0.2s Off 0.4s On 3s Off	Ringling Signal Internal
	2. 20Hz	1s On 3s Off	Ringling Signal Internal
	3. DTMF A	80 or 160mS	Voice Mail Answer
	4. DTMF D	80 or 160mS	Voice Mail Disconnect
	5. DTMF B	80 or 160mS	Voice Mail Recall
	6. MWI Signal	0.9 ON/0.1s Off	Message Waiting Signal
	7. 20Hz	1s On 1 S Off	Recall Ringing Signal
	8. 1209Hz	2 bursts 0.16s On twice then 3s Off	External Call waiting
	9. 1209Hz	2 bursts 0.5s On twice then 3s Off	Internal Call waiting
Internal general	1. 350/440Hz	Continuous	Dial Tone
	2. 400(T1), 350/ 440Hz(T2)	4 bursts of 0.125s T2-3s On	DND Stutter Dial Tone
	3. 350/440Hz	5 bursts of 0.1s 3s On	MW Stutter Dial Tone
	4. 400/450Hz	0.4s On, 0.2s Off 0.4s On 2s Off	Ringling Back Tone
	5. 400Hz	0.375s On/0.375s Off Repeated	Normal Extension Busy
	6. 400Hz	0.375s On/0.375s Off Repeated	Busy-Extension in DND
	7. 400Hz	0.375s On/0.375s Off Repeated	NU/Reorder Tone
	8. 440Hz	1s On	Executive override
	9. 350/440Hz	3 bursts of 0.1s	Entry Tone
	10. 1209Hz(T1), 500Hz(T2)	T1-3 bursts of 0.25s, T2 0.25s three times	Operation rejected. In call
	11. 350/440Hz	3 bursts of 0.125s	Operation accepted In call
	12. 2000Hz	2 bursts of 0.125s	Progm Operation accepted
	13. 2000Hz	0.75s On	Prgm Operation rejected
	14. 350/440Hz	1s On 2s Off Repeated	CFD stutter dial tone

4-2. System Port to Port losses.

Notes to Users

Step 4: Network Planning Information

Table A-4 below lists the various “typical” transmission gains/losses when inter-connecting the various port types.

Table A-4

System Port Type	RCOU3R/PCOU2F		RBSU2A		RPTU1F/RPTU2F		PEMU2F/REMU		PACU2F/PACU3F		RSTU3F/ASTU	
	to	fm	to	fm	to	fm	to	fm	to	fm	to	fm
PCOU2F/RCOU	3.7	3.7	1.8	1.9	1.8	1.9	3.1	3.2	-0.7	-1.5		
RPTU1F/2F	1.9	1.8	0	0	0	0						
RBSU2A	1.9	1.8	0	0	0	0						
PEMU2F/REMU	3.1	3.2	1.3	1.3	1.3	1.3	2.6	2.6	-2.0	-2.0		
PACU2F/PACU3F	-0.7	-1.5	-3.4	-2.5	-3.4	-2.5	-2.0	-2.0	-6.0	-6.0		
RSTU3F/ASTU	-0.5	-1.0	-2.4	-2.8	-2.4	-2.8	-1.1	-1.5	-5.9	-6.2	-5.2	-5.2

-Values indicate a transmission loss.

4-3. Loudness Rating.

The table below lists the measured loudness rating of the Toshiba proprietary terminals.

SLR and RLR @ 0km PSTN. (All values are +/-dB)

Table A-5

System Port Type	PDKU2A/BDKU/BDKS ITS-A	
	SLR	RLR
PCOU2F/RCOU3F	1dB	-5dB to -16dB
RPTU1F/RPTU2F/RBSU1A	6dB	2dB to -10dB
PEMU2F/REMU	4dB	-2dB to -14dB
PACU2F/PACU3F	8dB	0dB to -9dB

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