

DKT2404-DECT Next Generation Digital DECT Technology on Strata CIX Systems

This is a reissue, replacing the Product Bulletin dated April 6, 2009.

Toshiba is pleased to announce the next generation DKT2404-DECT cordless DECT phone product. The DKT2404-DECT provides the same features and functionality as the DKT2204-CT and DKT2304-CT cordless phones plus enhanced DECT functionality.

As a series, the DKT2204-CT, DKT2304-CT, and DKT2404-DECT models provide a range of feature/cost benefits for different tiered product offerings.

Product Overview

The DKT2404-DECT delivers next generation DECT functionality for the Strata series of cordless digital telephones. DECT technology minimizes any interference between base stations in proximity or any surrounding WLAN access points.

Combined with the DKT2404-UDR100 repeater solution, the new DECT technology provides three to seven times the range compared with the DKT2204-CT and DKT2304-CT models. The base station has a range of 300 to 400 feet depending on placement and the building structure in which it is used. Up to six repeaters can be linked per base station, with up to three daisy-chained to extend the operation range in one direction to greater than 1000 feet in open areas.

The DKT2404-DECT provides a 24-character display for better compatibility with the Toshiba DP5000 Series desk phones versus 16 characters on other cordless phone models. It provides four programmable keys with an additional four speed dial keys.

The DKT2404-DECT phone provided improved battery life to sixteen hours talk time and seven days standby time.

The DKT2404-DECT Phone provides:

- Two-line LCD with 24-character display, plus one line for icons
- Dedicated Talk, Redial, Hold, Msg, Cnf/Trn, Menu/MUTE, Speaker keys
- Four programmable keys plus four speed dial keys
- Ringer and handset volume control
- Auto Standby



DKT2404-DECT



DKT2404-UDR100

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- Auto Talk
 - Secure Adaptive Differential Pulse Code Modulation (ADPCM) voice code combination
 - Out-of-range protection
 - Low-battery protection
 - Three ring tones
 - Vibrate ringer alert
 - Headset jack (2.5mm)
 - Hands-free speakerphone
 - Repeater option for extended range

Value Proposition

Cost/Benefit

- Cost-effective digital cordless phone solution with a range of up to 300 ~ 400 feet in open areas
- Ranges greater than 1000 feet are possible when used with the DKT2404-UDR100 repeater solution
- Easily integrates into existing Strata CIX phone systems
- Easy to deploy

Performance

- High quality audio, secure, minimal interference solution
- Simultaneous ring with an existing Strata CIX desk phone
- Ability to access advanced features on the Strata CIX system

Specifications

Item	Specification
Cordless Phone Technology	DECT 6.0
Frequency	1.9 GHz
Number of Channels	5 Channels
LCD	2 lines x 24 char
Fixed Buttons	Talk, Menu/MUTE, Speaker, Redial, Hold, Msg, Cnf/Trn
Number of Programmable Buttons	4
Number of Speed Dial Buttons	4
Battery Type	NiMH
Talk Time	16 Hours
Stand-by Time	168 Hours
Headset Interface	2.5mm
Hands-free Speakerphone	Built-in
Repeater Unit for Extended Range	Optional
Repeater Programming Kit	Optional

System Requirements

Strata CIX

- CIX40, CIX100, CIX200, CIX670, or CIX1200 system running Release 2.0 or later software
- BDKU, BWDKU, or PDKU digital line interface card
- Strata DKT2000, DKT3000, or DP5000 Series digital telephone (optional)

Features

Phone Features

- Make Call
 - Redial Last Number
 - Speed Dial (One Touch Dial)
- Receive Call
 - Caller Name (internal call only)
- Mute key
- Hold key
- Message Waiting Indicator
- Voice Mail Retrieval key
- Volume Control

System Features

- Do Not Disturb [(line key) > #6091 enable / #6092 disable]
- Voice Mail Retrieval [(line key) > #408]
- Call Forward – All Call [(line key) > #6011 > (extension number)]
- Call Forward – Busy [(line key) > #6021 > (extension number)]
- Call Forward – No Answer [(line key) > #6031 > (extension number)]
- Call Forward – Busy, No Answer [(line key) > #6041 > (extension number) + timer (08-60)]
- Call Forward – Cancel [(line key) > #6051]
- Call Park [Cnf/Trn key > #33 + extension/orbit number (or #33#)]
- Call Park Retrieve [(line key) > #32 + extension number (or #32#)]
- Call Pickup [(line key) > #5#5 + extension number]
- Page All (Outbound) [(line key) > #30]
- Page Group (Outbound) [(line key) > #31 + group number]

Feature Matrix

Feature	DKT2204-CT	DKT2304-CT	DKT2404-DECT
Cordless Phone Technology	Digital Spread Spectrum	Digital Narrow Band	DECT 6.0
Frequency	900 MHz	900 MHz	1.9 GHz
Number of Channels	10 Channels	30 Channels	5 Channels
LCD	2 lines x 16 char	2 lines x 16 char	2 lines x 24 char
Fixed Buttons	Talk, Redial, Hold, Msg, Cnf/Trn	Talk, Redial, Hold, Msg, Cnf/Trn	Talk, Redial, Hold, Msg, Cnf/Trn, Menu/MUTE, Speaker
Number of Programmable Buttons	4	4	4
Number of Speed Dial Buttons	-	-	4
Battery Type	Ni-Cd	NiMH	NiMH
Talk Time	6 Hours	7 Hours	16 Hours
Stand-by Time	96 Hours	120 Hours	168 Hours
Headset Interface	Yes	Yes	Yes
Hands-free Speakerphone	No	No	Yes
Repeater Unit for Extended Range	No	No	Yes
Repeater Programming Kit	N/A	N/A	Yes

Known Issues

Caller ID will not display. For internal incoming calls, the DKT2404-DECT will display Caller Name. For external incoming calls, neither Caller ID nor Caller Name will display.

Hardware and Software Interoperation

The DKT2404-DECT has a 24 character, two line display. Please note that some legacy Strata CIX system interface card and software configurations will be limited to a 16 character, two line display.

- When connected to a BDKU or BWDKU interface card on Release 4.0 and later systems the display will be 24 characters. Earlier Release 2 and Release 3 systems will be limited to 16 characters.
- When connected to a PDKU interface card the display will be 16 characters regardless of software version.

Order Information and Availability

The DKT2404-DECT part number comes complete with phone, battery, base station, and power supplies. Optional DKT2404-UDR100 repeater unit and DKT2404-PRGKT repeater programming kit are also available.

Part Number	Description
DKT2404-DECT	DKT2404-DECT 6.0 Cordless Phone with Base Station. Includes: Handset, rechargeable battery, belt clip, battery charging unit with AC adapter, base station, base station power adapter and base station wall mount
DKT2404-UDR100	Repeater for DKT2404-DECT DECT 6.0 Base station and Cordless Phone
DKT2404-PRGKT	Programming Kit to program the DKT2404-UDR100 Repeater for sequential (daisy-chain) operation.

Replacement Parts

Replacement Item	Part Number
Handset	AP680BHP
Base Station Unit	AP680BHB
AC Adapter (Handset)	BADG0962001
AC Adapter (Base Unit)	BADG0961001
Handset Battery	BBTG0658001
Handset Belt Clip	AP680BHXA
Wall Mount Plate for Base Unit	GBCT255700Z
Handset Holder/Charger (AC-adapter NOT included)	AP680BHC
AC adaptor for Repeater	FW7600/05

Availability

The DKT2404-DECT cordless DECT phones are available for ordering on the Toshiba FYI site.

End-User Reference Guide

Strata CIX Setup

Before the DKT2404-DECT phone can share a digital station port with a Strata DKT3000 or DP5000 Series phone, the port must be programmed into DKT2000 Series mode. If the mode is not changed, the DKT3000 or DP5000 phone will not work and the DKT2404-DECT handset display will be blank. Also see Strata CIX Installation and Maintenance Manual for additional information.

- In DKT2000 Series Mode:
 - Only 16 characters by two (2) line display on the desk phone LCD
 - LCD Programmable Feature Button does not work
 - The Spdial button does not work
- 1. Turn DKT2000 Mode On/Off
 - On the DKT3000 or DP5000 Series phone, press 3+6+9+Hold (simultaneously)
 - Press #
 - Press FB7 (or FB10 on DKT3014). LED On = 2000 mode. LED Off = 3000 or 5000 native mode
 - Press Hold
 - Lift the handset to exit programming mode. Wait a few seconds for the phone to reset itself.
- 2. Connect the DKT2404-DECT base station to a DP3000-series or DP5000-series digital telephone. The DKT2404-DECT base station will connect to the digital station port and the DP3000 or DP5000 Series phone will connect to the DKT2404-DECT base station.

Documentation

The following related documentation is available from the Toshiba FYI site:

- Toshiba DKT2404-DECT Cordless Digital Telephone User Guide
- Toshiba DKT2404-UDR100 Repeater User Guide
- Strata CIX DKT2000, DKT3000, or DP5000 Series Telephone User Guide
- Strata CIX System and Media Application Server Installation and Maintenance Manual

Support

The DKT2404-DECT is covered under Toshiba's Strata support policy.

Technical Support

Toshiba will provide Tier 1 to Tier 3 support for its Dealers for any Strata CIX system, Strata DKT2000, DKT3000, or DP5000 Series phone, or DKT2404-DECT phone related issues. Dealers are requested to contact Toshiba Technical Support directly for troubleshooting and debug support.

Interoperability Support

Only DKT2404-DECT phones purchased directly from Toshiba will operate with the Strata CIX systems. Toshiba distributed phones have been approved for operation with current versions of the Strata CIX systems and fully tested to provide Toshiba's call quality and capability.

Limited Warranty

Toshiba America Information Systems, Inc., ("TAIS") warrants that this voice processing equipment (except for fuses, lamps, and other consumables) will, upon delivery by TAIS or an authorized TAIS dealer to a retail customer in new condition, be free from defects in material and workmanship for twenty-four (24) months after delivery. This warranty is void (a) if the equipment is used under other than normal use and maintenance conditions, (b) if the equipment is modified or altered, unless the modification or alteration is expressly authorized by TAIS, (c) if the equipment is subject to abuse, neglect, lightning, electrical fault, or accident, (d) if the equipment is repaired by someone other than TAIS or an authorized TAIS dealer, (e) if the equipment's serial number is defaced or missing, or (f) if the equipment is installed or used in combination or in assembly with products not supplied by TAIS and which are not compatible or are of inferior quality, design, or performance.

The sole obligation of TAIS or Toshiba Corporation under this warranty, or under any other legal obligation with respect to the equipment, is the repair or replacement by TAIS or its authorized dealer of such defective or missing parts as are causing the malfunction with new or refurbished parts (at their option). If TAIS or one of its authorized dealers does not replace or repair such parts, the retail customer's sole remedy will be a refund of the price charged by TAIS to its dealers for such parts as are proven to be defective, and which are returned to TAIS through one of its authorized dealers within the warranty period and no later than thirty (30) days after such malfunction, whichever first occurs.

Under no circumstances will the retail customer or any user or dealer or other person be entitled to any direct, special, indirect, consequential, or exemplary damages, for breach of contract, tort, or otherwise. Under no circumstances will any such person be entitled to any sum greater than the purchase price paid for the item of equipment that is malfunctioning.

To obtain service under this warranty, the retail customer must bring the malfunction of the machine to the attention of one of TAIS' authorized dealers within the twenty-four (24) month period and no later than thirty (30) days after such malfunction, whichever first occurs. Failure to bring the malfunction to the attention of an authorized TAIS dealer within the prescribed time results in the customer being not entitled to warranty service.

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