



TITLE	ENGINEERING FEASIBILITY STUDY REPORT (Modified)
MODEL	WDCT – Speaker Phone/CID/ITAD Models CAUTION: THIS IS A DRAFT COPY – HARDCOPY IS UNCONTROLLED.

Engineering Feasibility Study VTech WDCT

2.4 GHz Single-Line Digital Cordless Telephone Models:

2421 - CID

2431 – CID/Dual Keypad

2461 – CID/ADPCM ITAD

Revision History:

Revision	Description	Page	Effective Date
1.0	Initial Release	All	Sept 22'99

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1 GENERAL

This document is the feasibility study report (FSR) for the following VTech WDCT cordless telephones:

- 2421 – CID (Partial Study)
- 2431 – CID/Dual Keypad
- 2461 – CID/ADPCM ITAD (Partial Study)

This study does not include the RBOC Products or the Remote Charger (latter is done in UK).

The VTech WDCT product line consists of 2.4GHz cordless phones designed using the Infineon Chip set for both the RF and the Audio circuitry. They are high end products targeted at the SOHO market segment. Software is build on top of an existing SW stack and RF/ASIC technology is based on a proven DECT technology platform.



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2 PRODUCT OVERVIEW

In defining the product here, one of the key objectives is to build upon the VTech WDCT and the VTech UK DECT product design. The aim is to minimise the number of differences between the 3 models in order to develop the product within the desired time frame with the lowest cost possible.

2.1 FEATURE LIST

Here is a listing of the major features offered in this product line:

2.1.1 BASIC FEATURES

- 2.4GHz Transmission
- 2.4GHz Frequency Hopping Spread Spectrum
- 100% Bellcore compliance
- 3 and 4-way conferencing
- Graphic LCD Display
- Enhance Surge resistance (800V metallic surge)
- Multi-H/S compatible – Up to a maximum of 4 Handsets

2.1.2 HANDSET (Common across all 3 models)

- User Interface Reference: “ 60-F986 – Proposal for a common DECT4/WDCT 2.4GHz User Interface”
- External-antenna design
- Half-Duplex Speaker Phone
- 2.5mm H/J
- 50 Public memory locations in the Phone Directory
- Backlit LCD and Keypad
- Compatible to CID Type 2.5 functions for later models (not initial units)
- Smart Dialing from CID information
- Multi-line LCD for simultaneous display CID information and Soft key labels.
- Provide Pay Per Use function possibilities for the RBOCs
- Intercom with B/S
- VMWI LED on the top of H/S
- VMWI with both Stutter and FSK detection.
- Face-up charging only.
- Hands-Free Speaker
- Remote ITAD Control (Applicable with an ITAD Base Only)
- Belt clip
- Wall mount provision

2.1.3 Base Station(2421)

- Spare battery charger with POTS mode
- Battery: 2xAA NiMH
- VMWI LED

2.1.4 Base Station(2431)

- Spare battery charger with POTS mode
- Battery: 2xAA NiMH
- Dual Keypad
- Full Duplex Speaker Phone for Hands free operation
- 3 function keys: They will be 3 PPU keys for the RBOC Models and they will be M1/M2/M3 Quick Dial keys in the case of VTech Models.
- VMWI LED



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2.1.5 Base Station(2461) - SIEMENS' Chipset built in ADPCM ITAD

- Spare battery charger with POTS mode
- Battery: 2xAA NiMH
- Full Duplex Speaker Phone for Hands free operation
- Page/Intercom
- Basic ITAD Control Keys
- Message Counter LED
- VMWI LED

2.2 HANDSET FUNCTIONS (KEYS/FEATURES)

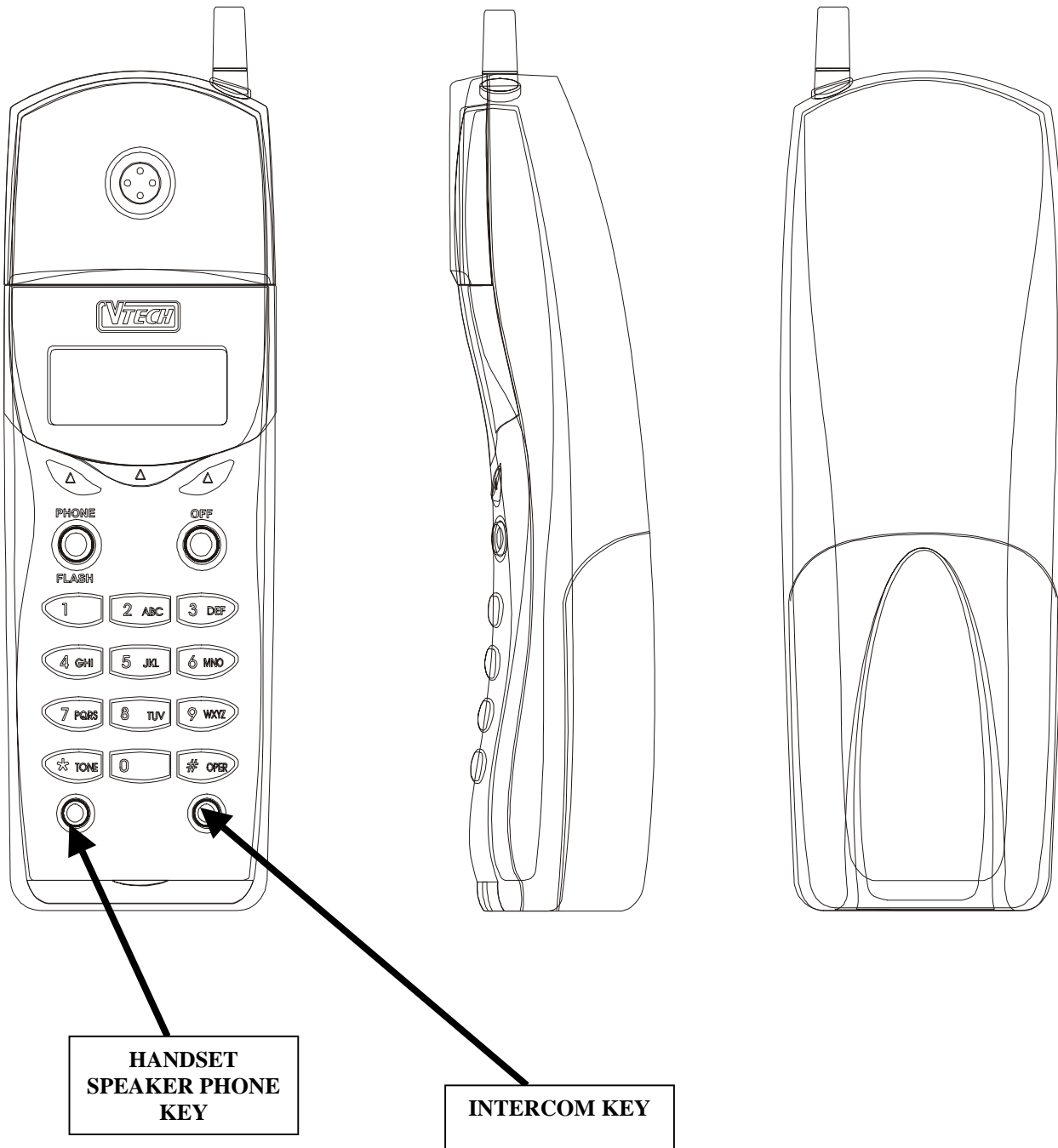
- MENU - No Backlight
- SOFT KEY (RIGHT HAND SIDE) - No Backlight
- SOFT KEY (LEFT HAND SIDE) - No Back Light
- PHONE – With LED Backlight
- OFF – Without LED Back Light
- Intercom
- Hand Set Speaker Phone Key
- CCITT Keys.



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2.3 INDUSTRIAL DESIGN – Line Drawings

2.3.1 HANDSET (Across all 3 models)





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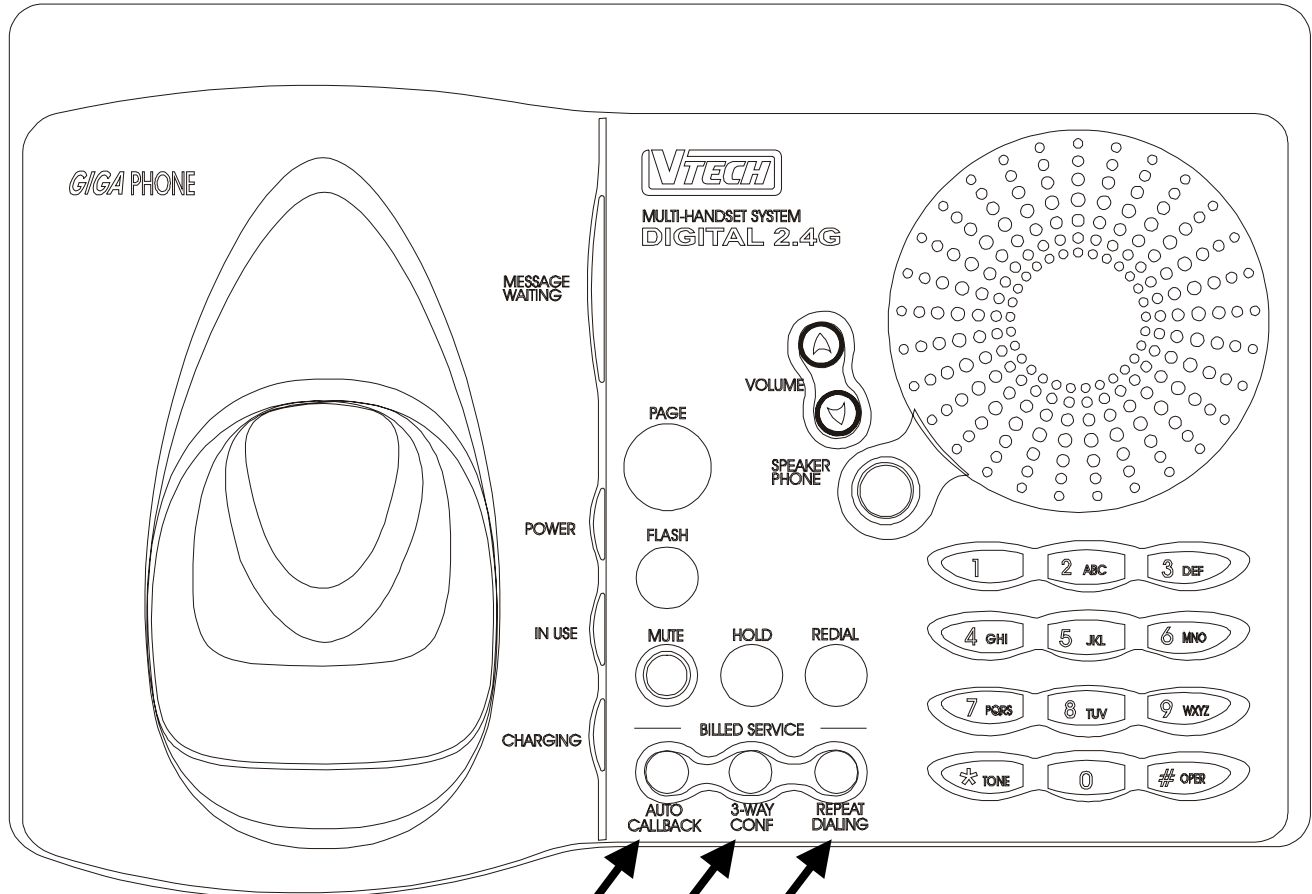
2.3.2 BASE (2421) Line Drawing:

Drawing to be inserted.



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2.3.3 BASE (2431) Line Drawing:



These 3 Function keys becomes PPU keys for RBOC products and Quick Dial M1/M2/M3 Keys for VTech Models



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2.3.4 BASE (2461) Line Drawing:

