

2.4GHz DIGITAL CORDLESS KEY TELEPHONE UNIT
MODEL : CKTU-24 **USA VERSION**

LG Electronics Inc.

2.4GHz DSSS Digital Cordless Key Telephone Unit

LG ELECTRONICS

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General Description

2.4GHz DIGITAL CORDLESS KEY TELEPHONE UNIT

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✓ 40 CHANNEL POSSIBLE IN THE 2403~2475 MHz BANDWIDTH.

✓ TRANSMISSION RANGE UP TO 700METERS IN FREE AREA, 200 METERS ININHABITED AREA. LONGER RANGE THAN ANALOG 2400MHz CORDLESS TELEPHONE

Basic Feature List

- ⇒ HIGH PERFORMANCE CONEXANT CHIPSET
- ⇒ LONGER RANGE
- ⇒ 3 STAGE OUTPUT POWER SELECTABLE
- ⇒ BETTER VOICE QUALITY
- ⇒ 40 CHANNEL OPERATION
- ⇒ AUTO ANSWER (When pick up the Handset during incoming ring)
- ⇒ AUTO STAND-BY
- ⇒ ONE-WAY PAGE CALL
- ⇒ ADJUSTABLE RECEIVER VOLUME CONTROL
- ⇒ ADJUSTABLE RING VOLUME CONTROL
- ⇒ HEARING AID COMPATIBLE
- ⇒ CONFERENCE CALL SUPPORT : UP TO 8 PARTIES
- ⇒ FLASH FUNCTION SUPPORT
- ⇒ HANDSET MICROPHONE MUTE FUNCTION SUPPORT
- ⇒ HOLD FUNCTION SUPPORT
- ⇒ SPEED DIAL NUMBER SUPPORT
- ⇒ TRANSFER FUNCTION SUPPORT
- ⇒ REDIAL FUNCTION SUPPORT
- ⇒ 2 LINES, 12 CHARACTERS LCD & LED DISPLAY
- ⇒ 16 MILLION AUTO-SECURITY CODE COMBINATION
- ⇒ AUDIBLE AND LCD DISPLAY OUT OF RANGE WARNING
- ⇒ AUDIBLE AND LCD DISPLAY LOW BATTERY WARNING
- ⇒ FLEXIBLE BUTTON ASSIGN : ONE OF THE 24 FLEXIBLE BUTTONS

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Specification

1. REFERENCE SPECIFICATION

- ⇒ Designed to conform to RF regulations FCC PART 68. PART 15. EIA 470B.
- ⇒ Designed to conform to SAFETY regulations UL
- ⇒ POWER : 9V DC 500mA CLASS 2 TRANSFORMER WALL ADAPTOR PROVIDED
- ⇒ INTERCONNECTION : MODULAR JACK CORD
: DC JACK CORD PROVIDED
- ⇒ FCC PART 68 HEARING AID COMPLIANCE (12 dB spread)
- ⇒ MICROPHONE NOMINAL GAIN RANGE : 30dB
- ⇒ HAND SET VOLUME CONTROL RANGE : 12dB

2. GENERAL SPECIFICATION

- | | | | |
|---|-------------------------------|---|---|
| ⇒ | FREQUENCY BANDWIDTH | : | 2403 ~ 2475MHz BAND WIDTH |
| ⇒ | NUMBER OF CHANNEL | : | 40 CHANNELS |
| ⇒ | CHANNEL SPACE | : | 1.8 MHz |
| ⇒ | SPEECH CODER | : | 32Kbps ADPCM with parity |
| ⇒ | TYPE OF RF MODULATION | : | DBPSK MODULATION / DEMODULATION |
| ⇒ | TYPE OF LINE TRANSMIT/RECEIVE | : | AMI(Alternate Mark Inversion) LINE CODING |
| ⇒ | PROCESSING GAIN | : | 11dB |
| ⇒ | DATA RATE | : | 80Kbps Time Division Duplex |
| ⇒ | FRAME TIME | : | 1ms Transmit / 1ms Receive |
| ⇒ | SAMPLE RATE | : | 1.92M SAMPLES/S (2 SAMPLES / CHIP) |
| ⇒ | TX POWER LEVELS | : | 100mW, 10mW, 1mW |
| ⇒ | RECEIVER SENSITIVITY | : | -102dBm, -82dBm |
| ⇒ | ADDITIONAL SECURITY | : | 2^24 SECURITY CODES |
| ⇒ | STANBY TIME | : | 21 days |
| ⇒ | TALK TIME | : | 4 hours |
| ⇒ | BATTERY CAPACITY | : | 3.6 V DC/600mAh (1.2V x 3) |

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3. TELEPHONE SPECIFICATION

- ⇒ OFF - HOOK RESISTANCE : Max 300ohm (on 20mA LOOP CONDITION)
- ⇒ ON - HOOK IMPEDANCE : Min 15Kohm (FREQ. 16Hz ~ 68Hz)
- ⇒ RETURN LOSS : Min 11dB
- ⇒ FLASH TIME : 620ms +/- 10ms
- ⇒ ACOUSTIC LEVEL : TX -53 dB ≤ TOLR ≤ -40 dB
RX 41 dB ≤ ROLR ≤ 51 dB
ST 3 dB ≤ SOLR ≤ 99.9 dB
- ⇒ REDIAL : 24 DIGITS
- ⇒ HEARING AID COMPATIBLE RECEIVER UNIT

4. RF SPECIFICATION

- ⇒ POWER LINE CONDUCTED EMISSIONS : SECTION 15.207 PASSED
(CLASS B REQUIREMENT)
- ⇒ BANDWIDTH : SECTION 15.247(a) PASSED
(700KHz > 500KHz)
- ⇒ POWER OUTPUT : SECTION 15.247(b) PASSED
(MAX 20dBm < 30dBm)
- ⇒ SPURIOUS EMISSIONS(CONDUCTED) : SECTION 15.247(c) PASSED
AT BAND EDGES : 25.3dBc < 20dBc
- ⇒ SPURIOUS EMISSIONS(RADIATED) : SECTION 15.247(c) PASSED
PER SEC 15.209(30 - 960MHz) UP TO 10th HARMONICS
- ⇒ POWER SPECTRAL DENSITY : SECTION 15.247(d) PASSED
(5.47dBm < 8dBm)
- ⇒ PROCESSING GAIN SECTION 15.247(e) PASSED
(11.2dB > 10dB)

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Frequency Table

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Channel Number and Frequency for 1.8MHz Channel Spacing

Channel Number	Channel Center Frequency (MHz)	Channel Number	Channel Center Frequency (MHz)
1	2404.8	21	2440.8
2	2406.6	22	2442.6
3	2408.4	23	2444.4
4	2410.2	24	2446.2
5	2412.0	25	2448.0
6	2413.8	26	2449.8
7	2415.6	27	2451.6
8	2417.4	28	2453.4
9	2419.2	29	2455.2
10	2421.0	30	2457.0
11	2422.8	31	2458.8
12	2424.6	32	2460.6
13	2426.4	33	2462.4
14	2428.2	34	2464.2
15	2430.0	35	2466.0
16	2431.8	36	2467.8
17	2433.6	37	2469.6
18	2435.4	38	2471.4
19	2437.2	39	2473.2
20	2439.0	40	2475.0



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DIGITAL SECURITY CODE:

The model(s) CKTU-24 has the circuitry for digital security code to provide protection against unintentional access. For each model, one of **16777216** kinds of digital security code is randomly selected and fixed in each telephone as it is manufactured.

A handwritten signature in black ink, appearing to read 'Solomon Sim', is positioned above a horizontal line.

**Solomon Sim / Approval Part Leader
Enterprise Communication Lab.
System Company / LG Electronics Inc.**