

LG-NORTEL

LG-NORTEL

telephone for home /
office offers high quality



LKA-220C



Specifications

- Display Caller ID
- Support FSK and DTMF
- 80 records for incoming call list (up to 16 digits)
- Assign for VIP (up to 50 records)
- 18 records for outgoing call list (up to 16 digits)
- Handsfree Dial (On Hook Dial)
- Back dial from the CID records
- 3 Direct memory (up to 32 digits)
- 10 Indirect memory (up to 32 digits)
- Last number Redial
- Selectable 10 ringer melody and ring off
- Volume adjustment
- Ring volume (5 levels)
- Speaker volume (4 levels)
- Handset volume (4 levels)
- Ring indication Lamp or Message waiting lamp

Ivory Color



Display Caller ID

Black Color



สอบถามรายละเอียดเพิ่มเติมได้ที่



รูปแบบและการเปลี่ยนแปลงบางประการสามารถเปลี่ยนแปลงได้โดยไม่ต้องแจ้งให้ทราบล่วงหน้า



LG Nortel - AW LKA 220C
Size A4

PRODUCT SPECIFICATION

LKA-220C SINGLE LINE TELEPHONE

DISTRIBUTION:

Sales & Marketing	1 copy
Engineering team	1 copy
QA team	1 copy
Manufacturing team	1 copy
Documentation	1 copy
Customer Service	1 copy

1.0 REVISION HISTORY

DATE	REVISION	DESCRIPTION
July 15, 2007	Preliminary Issue 1	Standard version

2.0 GENERAL DESCRIPTION

The LKA-220C is a single-line telephone which primarily intended to be used in PBX, Key System, Hybrid, and Central Office applications. Most of the telephone features provide a solution that meets the necessary requirements.

3.0 FEATURE LISTING

The following features are inclusive of the LKA-220C.

- Caller ID Type 1 (FSK, DTMF)
- 80 numbers incoming & 18 numbers outgoing call memory (up to 16 digit)
- Search and dial
- Hand Free dial
- Redial
- Pause (3.2 mS)
- Flash
- Message waiting indicator (Lamp)
- Easy phone setting by 7-Seg. English menu
- Direct memory (3 addresses and up to 32 digit)
- Indirect memory (10 addresses and up to 32 digit)
- Programmable ring melody (10 melodies and ring off)
- Volume control with key
 - Ring volume (5 steps)
 - Speaker volume (4 steps)
 - Handset volume (4 steps)
- Adjustable LCD contrast (16 levels)
- Date/Time setting
- Area code setting
- PABX access code setting
- Tone/Pulse switchable
- Flash time adjustable (100 mS, 300 mS, 600 mS, 1 S)
- VIP storing up to 50 users

4.0 HARDWARE REQUIREMENTS

Each telephone model is comprised of the following major components:

- Basetset
- Handset
- Handset cord
- Line cord
- User manual

5.0 OPERATION PROCEDURE

System set up

At on-hook state, press " PG " to enter the setting mode.

Press " UP " or " DOWN " to select the desire item.

There are 6 items in this menu.

1. Date time set.
2. Area code set.
3. LCD contrast set.
4. PABX access code set.
5. Tone/Pulse set.
6. Flash time set.

When you choose one item, press " PG " again to go to the setting mode.

Press " UP " or " DOWN " to change value, and press " PG " to store the value.

You can leave setting mode at any time with " DEL " or hooking.

** Press " PG " again to save and exit at last value in date and time set mode. **

Caller ID

The feature allows user to see information about an incoming call before picking up the phone with Caller ID service from local PSTN.

- There total 80 records for different incoming call number.
- Press Up/Down button to review all the incoming calls in memories.
- Press "DEL" to erase unwanted number in the list and holding for 4 seconds to erase all records in memories. (To erase all record, there should be no VIP register.)
- Icon "NEW" is shown to notice for the new call.
- Icon "REP" is shown when there are duplicated calls from the same number.
- Press " ST " for VIP register and press " ST " again to cancel it.

Pause

This function can be used when telephone is connected to PABX. After dial the code to seize CO line, press Pause button before insert target numbers.

Flash

At off hook state, if press " Flash " the line is disconnected for settled flash time.

Hand Free dial (On hook dial)

Hand Free dial feature provided to serve the hands free-conversation, adjust Up-Down button to control the sound level at your convenience.

Redial

There are 2 different ways to access redial.

- Hooking -> " RD "
- Press " RD " again at off -hook state: Line off (2.0S) + Pause (3.2S) + dialing.

Tone or Pulse Switchable (option)

Message Waiting Indicator

When use behind a communication system that provides message waiting, the lamp will light to indicate an incoming message has been received on line.

One-touch Memory

There are 3 addresses for one-touch memory to make speed dial.

- Dial the desired number during on hook state.
- Press PG button.
- Select "M1, M2 or M3" to store the number into memory.
- For next dial, just press M1, M2 or M3 to dial.

Two-touch Memory

There are 10 addresses for two-touch memory to make indirect speed dial.

- Dial the desired number during on hook state.
- Select one key address "1, 2, 3, ..., *, 0" to store the number into memory.
- For next dial, just press ST button follow by the key address.

Ring Melody

Press " RING " and repeat it to select from 10 different ring melodies and ring off

Volume Control

1. Ring Volume (5 steps) : " RING " -> " VOL " -> repeat it or " UP ", " DOWN "
2. Hand free speaker volume (4 step) : At hand free state, " VOL " -> " UP ", " DOWN "
3. Handset volume (4 steps) during conversation : At – off hook state, " VOL " -> " UP ", " DOWN "

** Handset Volume is returned to default value after hooking. **

LCD Display Contrast

Use Up/Down button to adjust the LCD Contrast Level at your convenience from 1-5, in "Contrast Adjust" menu.

6.0 ELECTRICAL CHARACTERISTICS

6.1 TRANSMISSION CHARACTERISTICS

6.1.1 Loudness Rating

Transmit, receive and sidetone objective loudness ratings shall be determined in accordance with the requirements of TBR21 standard. Data measure in term of separate numerical ratings for transmit (TOLR), receive (ROLR), and sidetone (SOLR) for each of the following line conditions.

CCITT

Items	TOLR		ROLR		SOLR	
	Lower	Upper	Lower	Upper	Lower	Upper
0 KM	12	19	-8	0	10	-
3 KM	12	19	-8	0	10	-
7 KM	14	21	-6	3	10	-

6.1.2 Telephone noise

Required result: Less than - 67 dB for all conditions.

6.1.3 Receiver noise

Required result: Less than - 85 dB for all conditions.

6.2 NETWORKING SIGNAL CHARACTERISTICS

6.2.1 DTMF Level

DTMF Level generated for each of the two fundamental frequencies under 900 ohm termination at loop current of 20 mA.

Required results:

High-frequency component : -4 ~ -8 dBm.
Low-frequency component : -6 ~ -10 dBm.

6.2.2 DTMF Difference (Twist)

The different DTMF level between low frequency component and the high frequency component.

Required result: 2 ± 1 dBm.

6.2.3 Frequency Deviation

The accuracy for each of the two fundamental frequencies compare to DTMF frequency table.

Required result: Less than ± 1.5 %

6.2.4 DTMF Signal Duration

Required results:

Signal duration time : More than 65 ms
Inter-digit time : More than 65 ms

6.2.5 DTMF Total Harmonic Distortion

Required result: Less than -20 dB at 20 mA current condition.

6.2.6 Pulse dialing (option)

Required results:

Pulse speed : 10 ± 0.8 pulse per second
Make / Break ratio : 40:60 + 3 %
Break resistance : More than 200kohm
Interdigit pause : More than 600 ms

6.2.7 Flash time

Required results: Adjustable (100mS, 300mS, 600mS, 1S)

6.3 DC CHARACTERISTICS

6.3.1 On-hook DC resistance

Required result: More than 5 Mohm at 200 V dc.

6.3.2 Off-hook DC resistance

Required result: Less than 8 V at 20 mA

6.4 DC CHARACTERISTICS

6.4.1 On-hook AC impedance

Required result:

f < 200 Hz :	More than	25 kohm
697 < f < 1,633 Hz :	More than	80 kohm
f > 3,200 Hz :	More than	60 kohm

6.4.2 Off-hook AC impedance

Required result: 400 ~ 1,400 ohm

6.4.3 Return Loss

Required result: More than 10 dB through frequency range 200 ~ 3,200 Hz

6.5 CALL ALERTING CHARACTERISTICS

6.5.1 Minimum Ring Start Voltage

Required result: 20 ~ 40 Vrms at 20 Hz

6.5.2 Ring sound level

Required result: (at distance 50 cm for ring signal 20 Hz 70 Vrms)
Maximum level : more than 70 dBspl.

6.5.3 Message Waiting Indicator

Required result: Minimum level 70 Vdc for MWI operation.

6.6 RELIABILITY TEST

6.6.1 Temperature test

Required result:

- No operation error occurs during each condition;
- 1) Setup chamber in 0°C for 12 hours
 - 2) Setup chamber in 40°C at R.H. 85% for 12 hours