

# LG-Nortel VoIP Solutions

The Best VoIP Solution  
LG-Nortel VoIP Product Family



# Multimedia IP Phone

## WinCE™ based LIP-6824LD

LG-Nortel's LIP-6824LD, simply elegant in design, brings the latest technology in a truly integrated Voice and Data device to your desktop. Supporting the SIP (Session Initiation Protocol) open standard for real-time communications, the LIP-6824LD employs Microsoft® WinCE as the OS for unparalleled functionality. Simultaneously establish a voice session and any of the many WinCE applications, access the internet with the CE browser, play video or audio clips with Windows Media player. The full color QVGA touch screen and Navigation button makes the user interface a breeze. For custom services, the ability to run third-party voice and data applications and access to a host USB port yields unmatched flexibility.



### Major Features

- ▶ Touch screen / web accessible
- ▶ Advanced SIP IP phone features
- ▶ Advanced management features
- ▶ NAT transversal features
- ▶ Security features
- ▶ WinCE applications

# LG-Nortel Vo

## LG-Nortel : Leader in communication solutions world-wide

For nearly five decades, LG-Nortel has been a leading provider of reliable, high quality, feature rich communications equipment for enterprises around the globe. During this period, LG-Nortel has learned how to manage technology shifts and apply new technologies to meet the telephony needs of small and large businesses alike. With the change to IP (Internet Protocol) environments, LG-Nortel continues to apply our knowledge of customer needs and technology to offer the next generation of IP terminals. The LG-Nortel IP phones are cost effective, simple to install, and easy to use - all of which minimize disruption as your business transitions to the IP environment. In addition, LG-Nortel IP phones offer access to the new and powerful functionalities available with hosted IP telephony services.

LG-Nortel - We know what businesses want.



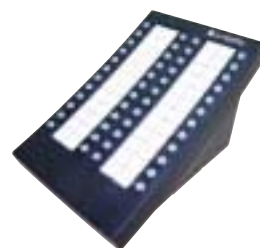
### LG-Nortel VoIP Solutions



LIP-6804



LIP-6812



LIP-6848 (DSS)



LIP-6830



LIP-6824LD



WIT-300H



Video-SoftPhone



## LIP-6800 series

**LIP-6800 series : An array of terminals with rich telephony features to meet your office communications needs.**

The LIP-6800 series IP phones are designed to enable real-time voice communication over IP networks. Employing internationally recognized standard protocols, SIP or MGCP, the LIP-6800 series phones interoperate with major soft-switch solutions to access all the features and value added functionality of the hosting servers. LG-Nortel offers a broad array of IP terminals: from the basic 6804 lobby phone, to the 6830 manager phone, to the DSS attendant console, the 6800 series phones address the needs of your office communications. The LIP-6824LD multimedia phone with WinCE addresses higher end needs for a truly integrated voice/data terminal, and is ideal where unique application support is needed. For in-office mobility, the LG-Nortel WIT-300H supports 802.11b for wireless LAN voice communications using standard access points. The LG-Nortel IP Video-SoftPhone application lets you use your office communication features wherever you have a broadband connection and, with the video option, lets you conduct live video conferences and collaborative session-sharing applications.

Model	LIP-6804	LIP-6812	LIP-6830	LIP-6824LD
<b>Design</b>				
<b>Color</b>	Black	Black	Black	Black
<b>Interoperability Test</b>	Broadsoft Cirpack Net2phone <sup>1</sup> NetCenTrex Sylantro	Broadsoft Cirpack Net2Phone <sup>1</sup> NetCenTrex Sylantro	Broadsoft Cirpack Net2Phone <sup>1</sup> NetCenTrex Sylantro	Broadsoft Sylantro
<b>Protocol</b>	SIP (Broadsoft/Sylantro) MGCP(Cirpack / NetCenTrex)	SIP y <sup>2</sup>	SIP y <sup>2</sup>	SIP y <sup>2</sup>
<b>LCD Display</b>	N/A	3 Line X 24 Charater Graphic LCD	3 Line X 24 Character Graphic LCD	4" Touch Screen Color Display
<b>Softkey</b>	N/A	3 soft keys 2 Direction Keys	3 soft keys 2 Direction Keys	3 soft keys 2 Direction Keys
<b>LCD contrast adjustable</b>	N/A	y	y	y
<b>Ethernet connection</b>	10/100, 2 RJ-45	10/100, 2 RJ-45	10/100, 2 RJ-45	10/100, 2 RJ-45
<b>Power Options</b>				
AC power	y	y	y	y
Power Over Ethernet	y	y	y	y
<b>Codec</b>	G.711,G732.1, G.729a/b	G.711,G732.1, G.729a/b	G.711,G732.1 ,G.729a/b	G.711,G732.1, G.729a/b
<b>IP Protocol</b>	MGCP, SIP	MGCP, SIP	MGCP, SIP	WinCE, SIP
<b>IP Address</b>	DHCP,Static	DHCP,Static	DHCP,Static	DHCP,Static
<b>QoS</b>	802.1p/q,Diffserv	802.1p/q,Diffserv	802.1p/q,Diffserv	802.1p/q,Diffserv
<b>Major Features</b>				
Multiple User Appearance	4	11	24	24
Shared Line Appearance	y	y	y	y
Redial	y	y	y	y
Hold	y	y	y	y
Mute	N/A	y	y	y
Transfer	N/A	y	y	y
Forward	N/A	y	y	y
DND	N/A	y	y	y
Conference	N/A	y	y	y
Speaker (handsfree)	OHD(Listen only)	y	y	y
Volume up/down	y	y	y	y
Ringer	y	y	y	y
Handset receiver	y	y	y	y
Speaker	y	y	y	y
Message button	N/A	N/A	y	y
Message wait Indicator	N/A	N/A	y	y
Headset	N/A	y, 2.5mmjack	y, 2.5mmjack	y, 2.5mmjack
Flexible Button	4	11	24	24
Wall mountable	y	y	y	y
Built in USB	N/A	N/A	N/A	y
DSS Console	N/A	x	x	
<b>Security</b>				
HTTP Secure Provisioning	y <sup>3</sup>	y <sup>3</sup>	y <sup>3</sup>	y <sup>3</sup>

1. Net2Phone Proprietary  
2. SIP is under interoperability testing with Sylantro  
3. Available from 4Q '05

# DSS & BLF Call Coverage

## *DSS/BLF Call Coverage :*

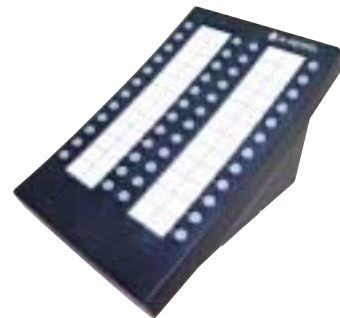
### *Versatile solution for the Answering/Coverage Position*

The innovative DSS/BLF Call Coverage function, available uniquely in IP Phones from LG-Nortel, make the LIP-6800 series the ideal choice for small Attendant Answering or Secretarial Call Coverage positions.

By defining a SLA (Shared Line Appearance) button for DSS/BLF Coverage operation, the user gains one button access to the functions most needed by the Answering/coverage position. The DSS (Direct Station Selection) function, dials the idle extension for transfers or direct calling, the BLF (Busy Lamp Field) function indicates the line (user) status, busy, idle or hold and the Call Coverage function gives the user direct access to incoming calls.

## *Features*

- ▶ Dual LED 48 Flexible buttons Programmable
- ▶ Can be assigned direct station selection
- ▶ Can be programmed as feature buttons
- ▶ Network I/F : 10/100 Ethernet 2 Ports
- ▶ Network Protocol : TCP/IP, UDP, etc
- ▶ Power : PoE or External Adapter



# Softphone

## *SoftPhone: Stay In-Touch where-ever you go.*

No matter where you are with LG-Nortel's Video-SoftPhone application and your Laptop connected to a broadband interface, gain full access to your office system and more. More than a simple voice tool, the Video-SoftPhone is an enhanced multi-media tool for interactive communications. This cutting edge software employs SIP protocol and industry standards to deliver high quality Voce, Video and Text communication simultaneously allowing you to establish a live audio/video conference with up to 3 parties. The Video-SoftPhone supports collaborative sessions, also between up to 3 parties, so you can share an application with multiple parties for small presentations or review.

# Voice over Wireless LAN(WLAN)

## *Add mobility to your office to enhance productivity.*

In office mobility afforded by LG-Nortel's WLAN IP Phone improves productivity and efficiency of your mobile workers. Employees that must be mobile in the office can place and receive calls as well as access the full range of features available in your hosted IP voice system. With the stylish design, full color display and Cell-phone like GUI, user's quickly and easily adapt to the Wireless voice environment.

## *Features*



Graphic Color LCD



Store upto 300 numbers



64 Poly bell  
50 built-in melodies



Push to Talk



Mobile like operation  
& GUI



Speaker phone

# Technical Specifications

## IP-Phone (LIP-68xx Series)

### IP phone specifications

- Protocol: SIP/MGCP
- Half/Full Duplex Speaker Phone
- Network Protocol: TCP/IP, UDP, DHCP, Telnet, TFTP, NTP, RTP, etc
- Network I/F: 10/100 Ethernet 2 Ports

Model	Function Buttons	LCD	Codec	Soft Keys	Headset Jack	PoE	Speaker Phone
LIP-6804	4	N / A	G.711,G.723.1,G.729A	N / A	N / A	○	X(OHD)
LIP-6812	12	3 x 24	G.711,G.723.1,G.729A	3	○	○	○
LIP-6830	30	3 x 24	G.711,G.723.1,G.729A	3	○	○	○
LIP-6824LD	24	QVGA(240 x 320)	G.711,G.723.1,G.729A	3	○	○	○

## WoLAN IP Phone (WIT-300H)

- Protocol: SIP
- Wireless: 2.4GHz, 802.11b (Future: 802.11g)
- LCD: Graphic Color LCD (128 x 128), Back Light
- Dimension: H x W x D (mm): 120 x 43.6 x 24.1 mm (98g)
- Codec: G.711, G.723.1, G.729A
- Charger: Desk Top Charger with USB/AC adapter
- Standby time: 40 hrs
- Talk time: 3.5 hrs (1100 or 1200mAh)

## LIP-6824LD

Network interface	RJ-45 IEEE 802.3 Ethernet / Fast Ethernet switch port
PC/Workstation interface	RJ-45 IEEE 802.3 Ethernet / Fast Ethernet switch port
Power	IEEE 802.3af Power-over-Ethernet support or Optional AC/DC Adaptor: Output = 48 VDC at 0.8 A Input = 100 ~ 240 VAC, 1 A, 50/60Hz
LED indicators	Ring Indicator, Speaker, Mute (Red LED) 24 function buttons (Red/Green LED)
LCD	4" VGA TFT Color LCD with touch-screen
Physical Size (H x W x D)	160 x 255 x 180 mm (HxWxD)
Weight	1.75 Kg
Operation temperature	0 ~ 40 °C
Storage temperature	-20 ~ 60 °C
Operation humidity	10 ~ 85 %RH (Note : non-condensing)



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