



Product Brief

LG-Nortel IP Phone 6800 Series

With business-class reliability and the ease-of-use of a traditional telephone, the LG-Nortel portfolio of SIP-based desksets is designed to enhance worker productivity.

Today's enterprises are moving to IP communications at an accelerated rate, driven by the need to reduce their costs, and to enable applications that enhance employee productivity and customer service. To meet the challenges and opportunities of this transition, LG-Nortel has developed the IP Phone 6800 Series. Driven by simplicity and innovation, these desksets offer the features and simplicity of a traditional desktop telephone combined with the advantages of advanced IP technology.

The LG-Nortel IP Phone 6800 Series is designed to enable real-time voice communication over IP networks. Employing industry-standard protocols — SIP or MGCP — the LG-Nortel IP Phone 6800 Series desksets interoperate with several leading communication server solutions to enable the business features and value-added functionality you require. LG-Nortel IP Phone 6800 Series offers three unique IP Phones to address the unique needs of your office communications.

- **The IP Phone 6804** — A non-display, entry level solution suitable for use in low use common areas such as lobbies, guest desks, and hallways
- **The IP Phone 6812** — A display-based intermediate level desk set providing easy access to commonly used features and the benefits of display based interaction — perfect for knowledge workers and employees who rely on their telephones for efficient communications
- **The IP Phone 6830** — A display-based professional level desk set providing an enhanced button count for receptionists, managers and employees who need one touch access to numerous features and speed dial keys

The LG-Nortel IP Phone 6800 Series supports a wide range of today's high-value business applications, and provides investment protection for future applications within the enterprise.

The Power of SIP

The Session Initiation Protocol (SIP) control paradigm provides functionality that enables an entirely new network communications model, changing the way people communicate. SIP represents exciting possibilities for personal and enterprise communications. Users can enjoy a wealth of new services and IT departments can lower the cost of designing and deploying innovative new IP-centric services for their customers.



Simplicity

A seamless transition. With the LG-Nortel IP Phone 6800 Series, users enjoy the single-key feature access options they have grown accustomed to. Fixed keys replace confusing menus for setup or access.

Ease of installation. With 802.3af Power over Ethernet (PoE) no power adapter is required — simply plug the phone into the corresponding LAN port.

Easy, web-based user setup. A major advantage of IP telephony is that it can be integrated with other network services. With the LG-Nortel IP Phone 6800 Series, users can easily program the feature buttons of their individual phones with a user-friendly, web-based interface.

Self-configuring. The LG-Nortel IP Phone 6800 Series can be set up to auto-download for a full and automatic configuration. The settings button provides access to the configuration menu for easy set-up and ongoing management of the IP deskset.

Innovation

Interoperability. With standards-based SIP support, the LG-Nortel IP Phone 6800 Series is interoperable with many industry-leading call servers, allowing enterprise-wide deployment over disparate call server implementations.¹

Expansive feature set. With up to 6 fixed feature keys and 24 programmable keys, an executive or administrative assistant can have single-key access to the most requested features.

Unique call coverage. With the optional Direct Station Select 6848 (DSS) module, additional speed dial keys can be added to the IP Phone 6812 and IP Phone 6830 to provide one touch access to frequently called numbers.

Key features

LG-Nortel is a leading provider of reliable, high-quality, feature-rich communications equipment for enterprises around the globe. Based on this experience, 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 SIP (Session Initiation Protocol) environments, LG-Nortel continues to apply their knowledge of customer needs and technology advancements to new desktop solutions. The LG-Nortel IP Phone 6800 Series is cost-effective, simple to install, easy to use and is designed to minimize disruption as your business transitions to a SIP environment. In addition, the LG-Nortel IP Phone 6800 Series offers access to new and powerful capabilities available with hosted IP telephony services.

The LG-Nortel IP Phone 6800 Series desksets offer the following standard features:

- Automatic SIP registration with the host
- Manual configuration (on the 6804, configuration employs Integrated Voice Response)

- Password controlled web-based configuration
- Programmable Flexible keys
- 100-number basic phone book*
- Locally maintained log of received, missed and outgoing calls*
- ACD agent menu*
- Power over Ethernet
- Integrated speaker with volume control
- Volume bar providing fingertip control of audio and ringer volume settings
- Line LEDs indicating call status
- Multiple line appearances
- Multiple ring-tones

* Not available on the IP Phone 6804.

Supported Nortel SIP-Centric Call Servers

Nortel offers a variety of SIP centric communications servers to meet the needs of businesses and organizations transitioning to the world of SIP-centric Unified Communications solutions:

Business Services Gateway. The Nortel Business Services Gateway portfolio provides an integrated and converged multi-service gateway solution for small

¹ Contact your Nortel sales representative for a current list of call servers supported.



businesses seeking the advantages of hosted data and voice services. Supporting unified communications and new security applications through secure broadband access, this solution provides routing, switching, and sophisticated SIP capabilities and is specifically targeted at SMBs, small branch offices and teleworker locations with fewer than 100 users.

Software Communication System 500.

The Nortel Software Communication System 500 is a feature rich, highly flexible, standards-based communication solution for small and medium business. Targeted to customers with 50 to 500 users, the Software Communication System 500 leverages Nortel’s strategic partnerships with Microsoft and IBM to create powerful, cost effective unified communications solutions.

Communications Server 2000. The Nortel Communication Server 2000 is a Carrier grade Voice over IP (VoIP) IMS-ready super-class softswitch operating in an open standards Nortel VoIP network. It supports a wide range of signaling, transport and control protocols including both MGCP and SIP for line gateways.

Communications Server 2100. The Nortel Communication Server 2100 is a large-scale Enterprise converged solution based on its carrier derivative, the Communication Server 2000. The Communication Server 2100 addresses the needs of demanding large enterprises and government organizations with a highly scalable converged solution deploying a “best of all worlds” philosophy. The Communication Server 2100 incorporates Nortel’s leading Enterprise features and applications combined with the attributes of scalability, reliability and networking typically only found in carrier grade solutions.



Technical specifications

Specification	IP Phone 6804	IP Phone 6812	IP Phone 6830
Color	Black	Black	Black
Supported Protocols	SIP and MGCP		
Connectivity	10/100, 2 RJ-45		
Power Options	Local AC power / Power over Ethernet (PoE 802.3af)		
Codecs	G.711, G.723.1A, G.729AB		
IP Protocols	TFTP, HTTPS, NTP		
IP Address	DHCP, Static		
Quality of Service (QoS)	802.1p/q, DiffServ		
Platform Compatibility	Nortel Business Services Gateway portfolio, Nortel Software Communication System 500, Nortel Communication Server 2000, Nortel Communication Server 2100, Broadsoft SIP Application Server R14, Sylantro SIP Application Server V3.2.1		
LCD Display	NA	3 Line X 24 Character	
Display Soft Keys	NA	3 Soft keys and 2 direction keys	
Line Appearances	Up to 4	Up to 11	Up to 24
Programmable “Flex” Keys	4	11	24
Feature Buttons	NA		5 + Headset
Speaker Phone	On hook dialing only	On hook dialing and full speaker phone	
Head Set	NA	2.5mm Jack Connector	
Direct Station Select (DSS) Support	NA	Optional	

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For more information, contact your Nortel representative, or call 1-800-4 NORTEL or 1-800-466-7835 from anywhere in North America.

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