

# NetVision® Phone

IEEE 802.11b, Direct Sequence



## WIRELESS VOICE-OVER-IP NETWORK APPLIANCE

The NetVision® Phone from Symbol Technologies adds voice-over-IP (VoIP) communications to Symbol's Wi-Fi™ certified Spectrum24® 802.11b direct sequence wireless LAN installations, allowing simultaneous voice and data support on the same wireless backbone. Employing VoIP technology based on the ITU standard H.323, the NetVision Phone converts analog voice into compressed digital packets that are sent via TCP/IP protocol over standard data networks.

The IEEE 802.11b-compliant NetVision Phone interoperates with many Wi-Fi certified wireless LANs. Broad support of VoIP solutions from major telephony vendors allows PBX integration of the NetVision Phone via a gateway for internal and external voice communication.

### Communication at the Speed of Business

With business moving faster every day to keep pace with customers and competitors, communication is a tool of ever-increasing strategic importance. The ability to send voice and data over one wireless network can result in significant savings and allows for the development of new applications that increase productivity and provide better customer service.

### Advanced Handset and Secure, Quality of Service Wireless Communications

The NetVision Phone handset features include:

- ▶ Dialing: peer-to-peer, extension, name, speed
- ▶ Messaging: SNPP-based two-way text messaging
- ▶ Call hold, park/unpark, transfer, conference, forwarding, call waiting, mute, do not disturb
- ▶ DHCP support
- ▶ H.323 gatekeeper support
- ▶ Vibrate, visual, ringer call alert
- ▶ Headset support (2.5 mm)
- ▶ Wireless firmware/configuration updates
- ▶ Signal and battery strength indicators
- ▶ Shared and personal user mode support
- ▶ User configuration options (volume, LCD contrast and more; select features are not available with certain gateways)



Embedded wireless communications features of the NetVision Phone include:

- ▶ Dynamic Rate Scaling



- ▶ Symbol Wireless Voice Prioritization, giving priority to NetVision Phone "voice packets" on the Symbol Spectrum24 wireless LAN
- ▶ Pre-emptive Roaming for optimum voice quality and bandwidth maximization
- ▶ 40 and 128 bit WEP Encryption security; Kerberos V5
- ▶ 10 active calls per wireless access point, on average
- ▶ IEEE 802.11d International Roaming

### PBX Connectivity Solutions

The NetVision Phone is designed to work with your existing phone system via a gateway through a standard analog or digital connection. NetVision Phone PBX connectivity solutions include:

Analog	Ericsson Webcom Webswitch 2000/100
Digital (T1)	Mitel Integrated Communications Platform (ICP) 3300
Digital (Integrated)	Nortel Networks BCM, 802.11 wireless IP Gateway for Meridian; Cisco AVVID Skinny Client Control Protocol

The use of a gateway provides seamless access to desktop phones, zone-distant phone support, and PBX-provided supplementary services such as:

NetVision Phone Feature	Standard H.323V	H.323+ for Mitel Networks ICP 3300	H.323+ for Nortel Networks	Cisco AVVID Skinny Client Control Protocol
Peer-to-Peer Dialing	Yes	No	No	No
Extension Dialing	Yes	Yes	Yes	Yes
Name Dialing	Yes	No	No	No
Speed Dialing	Phone defined	Host defined	Host defined	Host defined
Call Hold	Yes	Yes	Yes	Yes
Call Park/Unpark	Yes	Yes	Yes	Yes
Call Transfer	Yes	Yes	Yes	Yes
Call Conference	Yes	Yes	Yes	Yes
Call Forwarding	Yes	Yes	Yes	Yes
Call Waiting	Yes	Yes	Yes	Yes
Do Not Disturb	Yes	Yes	Yes	Yes
Call Mute	Yes	Yes	Yes	Yes
DHCP	Gateway dependent	No	Yes	Yes
Authentication	H.323 RAS	H.323 RAS	H.323 RAS	CM Registration

## Mobilize Your Enterprise Wirelessly

Symbol's global wireless industry leadership is founded on a comprehensive range of innovative technologies and knowledgeable services. Symbol brings you a unique combination of benefits that enables your organization's end-to-end mobile computing strategy and optimizes the capture, computing and communication of data crucial to business decision-making and success.

## NetVision Phone Specification Highlights

Performance Characteristics	
Phone Protocol:	ITU H.323 version 2 compliant; optional support for Cisco Skinny Client Control Protocol; optional enhanced H.323 implementation and support for Mitel's MiNET protocol and Nortel Networks voice-over-IP solutions
Codec:	8-bit sampling; supporting G.711 and G.729a
Voice Packet Size:	40-160 bytes (configurable)
Battery:	7.2 volts rechargeable; Lithium ion; 800mAH
Battery Life:	Per charge: 3 hours talk time, 20 hour standby operation, battery meter
Wireless Access Protocol:	CSMA/CA
Frequency Range:	2.4 - 2.485 GHz
Number of Channels:	11 - 3
Data Rate:	802.11b Direct Sequence Rate Scaling at 1, 2, 5.5, and 11 Mbps
Wireless Output Power:	60 mW
Range:	1,000+ ft./300+ m outdoors and up to 295 ft./75.5 m indoors
Physical Characteristics	
Dimensions:	5.10 in. H x 1.75 in. W x 0.75 in. D 13.0 cm H x 4.5 cm W x 1.9 cm D
Weight:	5.5 oz./154 gm
Display:	LCD: 3 line, 12 character
Buttons:	0-9 *# key, Send, End, ', Function, Menu, Name, Recall, Store, Scroll, Hold
Notification:	Ringer/vibration/LED
Ports:	Headset port (2.5 mm) and external serial port
Network Characteristics	
Protocol:	TCP/IP; DHCP; IEEE 802.11b protocols
Security:	Wired Equivalent Privacy (WEP) 40 and 128 bit; Kerberos V5
User Environment	
Drop Specification:	4 ft./1.2 m to concrete
Temperature:	32°F to 140°F/0°C to 60°C
Accessories:	AC adapter, dual battery charger, leather case, and bungee cord
Regulatory	
Electrical Safety:	Certified to UL1950, CSA C22.2 No. 950, EN60950/IEC950
EMI/RFI:	FCC Part 15 Class B, ICES-003 Class B, European Union EMC Directive, Australian SMA, FCC Part 68



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