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NEC

DECT Handset G966

SmartDECT handset with Android and WiFi

The SmartDECT handset G966 is a sophisticated handset providing enterprise grade capabilities and proven DECT voice quality with the flexibility of android application support.

Main Product Features

> Sophisticated DECT handset with rich call control features and applications tightly integrated with the NEC communication servers and PBX systems to contribute to the effectiveness of staff in various businesses, hospitality and healthcare

> Mobile Unified Communications features with central directory, presence look-up, messaging/alarming and localization facilitated by DECT

> Android and WiFi to support business applications with the option to tightly integrate the application with the specific features of the G966 through its API

> Front camera for video-supported unifi ed communications

> Bluetooth LE (low energy) to connect to a variety of external devices

> Compatible with rack/desktop charger of G266 and G566 sets

> DECT compliance for high quality speech and security

> HD-Voice with G.722 codec in line with CAT-iq specifications

At a Glance

> Appealing design and Smartphone user experience

> Large 4" high resolution touchscreen plus essential keys for call handling

> Ideal handset for integration with business applications while on the move

> Supporting key vertical applications like messaging and alarming

> High-definition audio in line with CAT-iq

> Secure provisioning over the air

> Dedicated keys, e.g. SOS

Features G966

Android applications	Phone (DECT dialler)	People (personal contacts)
	Email and Calendar (server synchronization e.g. Exchange)	Messaging
	Calculator, Music player, Sound recorder, Camera	Browser
	Clock	File explorer
		Gallery
Call handling [1]	Android model dial application	Call reject option
	Caller list (incoming, outgoing, failed)	Loudspeaker mode
	Directory access with photo display	Microphone Mute
	CLI (name and number support)	HD audio and seamless handover
	Last number redial	On-hook number preparation
	Recall/hold (enquiry)	Silent Charging
	Automatic call answer	Talk time up to 8 hours | Standby time up to 72 hours
Design	Smartphone design	Vibrator mode
	Large high resolution touchscreen (4-inch)	Dust and water resistance: IP40
	Android 4.0 (Ice Cream Sandwich)	RGB LED to provide four colour message indications
	Bluetooth LE	Antenna diversity
	HAC compliant	Android support for certified applications
Directory	(IP) DECT Corporate Directory applications	Personal contacts (Android People application)
		Exchange server Corporate Directory
Display	16M colour touch display, 4-inch IPS TFT 480x800 px (384K)	WideChar (UTF160) character set
	Illuminate display: on incoming calls, messages, notifications	LCD Backlit
	Date & time synchronized with PBX clock or internet	Power saving by dimming display
Front Camera	2M Pixel CMOS camera	Resolution 1600H x 1200V
	65K colour depth (16 bits per pixel)	Frame rate: 15fps@UXGA(1600x1200), 30fps@SVGA(800x600)
Headset	Wired headset support; 3.5 mm standard jack	Bluetooth
	Take call and release call on headset	
Keys	Recall (enquiry) key combined with on-hook key	Off-hook key
	Menu key	Three side keys, left (volume up/down, SOS
	Distinctive home key	One side key, richt (on/standby)
	Back key	White keypad backlight
Localization	Supported languages: 14	Multiple (RF) power levels
	Triple frequency band	
Memory (internal)	Total 580 MB	Approx. 500 MB for applications and user data
	Can be expanded with optional memory card	
Memory card (optional)	Configuration and subscription data storage, personal phone book and caller filter	Easy (pre-)installation by programming the memory card
	Blocking of changes to the configuration setting	Memory card type: MicroSD
	Easy subscription to another handset via memory card switch	Internal memory extension for applications & user data
Messaging	(IP) DECT Messaging Application	Message broadcast support
	DECT (LRMS) support	Set-up of voice call to call back number in message
	Message waiting (voicemail)	Compatible with DMLS open interface
	Urgency levels: Normal, Urgent, Emergency	
Mobility	Supports 10 DECT subscriptions	Automatic selection
Motion sensor	3-Axis Orientation and Motion Detection	Tilt Orientation Detection for Portrait/Landscape
Sound/Audio	Adjustable ringer volume	Adjustable earpiece/loudspeaker volume
	Loudspeaker mode/hands free	Microphone mute
	Trembler	Silent ring support
Service/Maintenance	Software upgrading via air interface (WiFi	Backup of local data via micro SD card)
	Software upgrading via USB interface	(Auto) provisioning via air interface (WiFi)
User data	Internal memory for storage of configuration data, personal phone book, messages, caller log, etc.	Optional micro SD card
User interface	Full Graphical User Interface with touchscreen	Android flexibility for ringing melodies, etc.
	Configurable LED (3-col) indicator for e.g. missed call and message waiting, low battery or (silent) charging	Widgets for DECT subscription, missed calls, voicemail indication and received messages
	Selectable display background	

1) Features depend on the capabilities of the PBX and the DECT system used

Physical Characteristics

Dimensions	Handset: 129 x 63 x 12 mm
	Charger: 77 x 77 x 61 mm
	Charger Rack: 462 x 77 x 61 mm
Weight	Handset: 161 g
	Charger: 78 g
	AC Adapter: 25 g
Protection	Handset: IP40
Range	Indoor: 50 m max [2]
	Outdoor: 300 m max [2]
Power Supply and Charger	One desktop charger for G266, G566 and G966
	USB AC adapter
	Input: 100-240 VAC 50-60Hz /150mA
	Country variants for EU and US/UK/AU
	Output (USB AC adapter): 5.0 VDC 1000mA
	(EU version) and 900 mA (US/UK/AU version)
	Charging time: < 3 hours to charge battery to 90% when handset in charger or connected via USB
Battery/life	3.7 VDC 1600 mAH Lithium-ion battery
	Talk time > 8 hours (DECT mode only)
	Talk time > 6 hours (WiFi mode only
	Standby > 72 hours *(WiFi & BT off, DECT standby)*
	Off time > 336 hours
Colour G966	Handset: Black
	Desktop charger (G266/G566/G966): Black
	Charger rack: Black

Audible indicators	Selectable audible indicators:	
	Key click	Charger warning
	Coverage warning	Confirmation tone

Status line indicators and selectors	Battery condition	WiFi signal strength
	Charging indication	Messages
	Time	Notifications
	DECT signal strength	
	Selector bar with WiFi on/off, Bluetooth on/off, display illumination, sync on/off	

LED indicators	Of the user selectable indicators below, three can be assigned to the indicator LED:	
	Battery low	Text or voice message
	Missed call	

Supported menu languages	Danish, Dutch, English, French, German, Greek, Italian, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, Turkish

2) The radio coverage of DECT handsets depends on the environment and the presence of obstacles

Bluetooth

Bluetooth [3] version	Classic	
	Low Energy (BLE 4.0)	
Class	Class 2, 2,5mW	
Datarate	V1.5, V2.0+EDR, V3+HS, V4.0	
Profiles supported	Health Device Profile (HDP)	
	Handsfree Profile 1.5 (HFP)	
	Headset Profile (HSP)	
	Advanced Audio Distribution Profile (A2DP)	

Accessories

G966 handset accessories	Horizontal pouch for belt (handset needs to be removed when used)
	Rugged holder with belt-clip (handset can be used while in holder)
	Bumper
	Memory card
	Battery pack
	Desktop Charger with adapter
	Charger rack (6 handsets) with AC Adapter
	Bluetooth headset
	Wired headset

DECT

Transmitted radio RF power	Less than 250 mW [4]	
Average Radio RF power	10mW	
Frequency band EMEA	1880 – 1900 MHz	
Frequency band Thailand [5]	1900 – 1906 MHz	
Frequency band Latin America [5]	1910 – 1930 MHz	
Frequency band North America [5]	1920 – 1930 MHz	
Frequency band Korea	1786 – 1792 MHz	
Security	Automatic DECT encryption to secure calls	
Protocol	Supports both GAP DECT, DECT 6.0 and CAT-iq	
Range	EU:	50 m indoor
		300 m outdoor
	USA:	40 m indoor
		250 m outdoor
Antenna	Two antennas for diversity	

4) The transmitted Radio RF power is according to local regulations

5) The G966 handset has a triple frequency band and can be used in the EMEA, American and Thai DECT frequency band
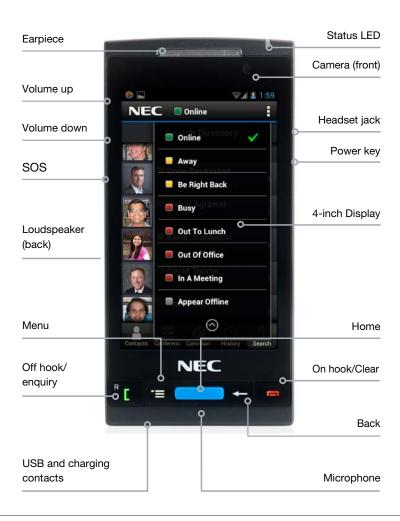
Environmental Conditions

Temperature range	Operating: -0 °C to +40 °C
	Transport: –25 °C to +70 °C
	Storage: –5 °C to +45 °C
Relative Humidity	Operating: 10 to 95%
	Transport: 10 to 100%
	Storage: 10 to 95%

Package content

G566 package content	G966 handset
	Lithium-ion battery pack (1100 mA)
	Quick Refence Guide

Compatibility

Platform Compatibility IP DECT	SL Series, SV8100 and SV9100
	SV8300 and SV9300
	SV8500 and SV9500
	iS3000 with DECT or IP DECT
	SIP@Net
	Certified SIP enabled PBXs or SIP servers
	Alcatel Lucent, Avaya, Cisco certified systems

WiFi

Standard compliancy	802.11a/b/g/n
Frequency band	2.4 GHz: 802.11 b/g/n
	5 GHz: 802.11 a and n
Data rates	802.11 a/g: up to 54 Mbps
	802.11 b: up to 11 Mbps
	802.11 n: up to 72 Mbps
Maximum transmit power	+18 dBm @6 Mbps
	+14 dBm @54 Mbps
Receiver sensitivity	-92 dBm @6 Mbps
	-75 dBm @54 Mbps
Encryption methods	WEP, TKIP, AES, WAPI
Authentication methods	802.1x, WPA-PSK, WPA2-PSK, WPS
QoS prioritization	WMM (based on 802.11e)
Antenna	MIMO 1x1
Battery life enhancements	U-APSD
Roaming enhancements	PMK caching
Cisco Support	Cisco CCX4 support
	CCX Lite (aligned with Cisco)

Directives & Regulations

European Union	EMC directive 2014/30/EU
	LVD directive 2014/35/EU
	ROHS directive 2011/65/EU
	WEEE directive 2012/19/EU
	ERP directive 2009/125/EC
USA and Canada	FCC part 15C, 15D
	RSS 210, RSS 213
	HAC/VC

Compliance

The G966 handset carries a CE mark (European directive 1999/5/EC)

EMC	EN 301 489-1, EN 301 489-6, EN 301 489-17
	EN 300 440-1, EN 300 440-2
EMF	EN 50360
RF DECT	EN 301 406
RF WiFi	EN 300 328, EN 301 893
RF Bluetooth	EN 300 328
Safety	EN 60950-1:2006 + Amendments

Left side labels: Earpiece, Volume up, Volume down, SOS, Loudspeaker (back), Menu, Off hook/ enquiry, USB and charging contacts

Right side labels: Status LED, Camera (front), Headset jack, Power key, 4-inch Display, Home, On hook/Clear, Back, Microphone

Corporate Headquarters (Japan) NEC Corporation
www.nec.com

Asia Pacific
NEC Asia Pacific
www.nec.com.sg

Australia
NEC Australia Pty Ltd
au.nec.com

Americas (US, Canada, Latin America)
NEC Corporation of America
www.necam.com

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www.nec-enterprise.com