

# IP DECT communication

The ultimate devices  
for voice, text messaging  
and in-house mobility



# “True mobility across your organization”

## Contents

On-site wireless telephony on your IP Network	3
IP DECT key applications & user experience	4
IP DECT handset G266	6
IP DECT handset G566	7
IP DECT handset G966	8
IP DECT handset I766	9
IP DECT M166 Communicator	10
Feature overview	11





# On-site wireless telephony on your IP Network

Today's business environment demands flexible ways of working and increased customer services. Organizations seek to extend the reach of their converged voice and data network but also save on branch office costs. They wish to integrate wireless communications without compromising on voice quality, availability and security. NEC's Business Mobility IP DECT realises all of this, and much more.

## Business Mobility IP DECT - combining the benefits of IP and DECT technologies

NEC's Business Mobility IP DECT delivers on-site wireless telephony that uniquely combines the benefits of IP technology with the superior quality and facilities of the well established DECT technology. This brings:

- > Improved Customer Satisfaction – Callers get quick access to employees, improving customer satisfaction
- > Business efficiency – Employees can always be reached and seamless handover guarantees conversations continue when on the move
- > Increased performance – Powerful functionality such as corporate directory access, text messaging and presence
- > Cost savings – Easy to use wireless voice drastically reduces monthly cellular costs
- > For any organization – Scalable and secure communications for single office, campus or even metropolitan environments.

## Add sophisticated DECT wireless voice solutions to your network

With Business Mobility IP DECT, a single converged network provides both fixed and wireless telephony. Wireless telephony in a multi-site company or large campus environment is a matter of installing IP DECT Access Points (APs) at remote locations, with no need for additional remote equipment. These remote locations become an integral part of your central communication infrastructure.

## The IP DECT open architecture, embracing CAT-iq

To protect investments and stay competitive, Business Mobility IP DECT is based on the open SIP standard. This basis offers compatibility to many platforms available in the market. NEC's IP DECT portfolio takes advantage of the CAT-iq standard with HD-voice quality as important enhancements to DECT and supports applications such as Unified Communications, messaging, alarming, task management and localization.

## Multi-site mobility

Business Mobility IP DECT provides wireless telephony in a multi-site business or campus environment. Organizations with a main office and different branch offices for instance simply install IP DECT Access Points at remote locations, which form one cluster with all other Access Points via the company's network infrastructure.

## Proven reliability - across all levels

DECT has been around for quite a while and still is the best possible mobility solution for the vast majority of businesses. For one, it offers the ultimate in reliability - in terms of scalability, security and coverage. Its exclusive frequency band makes it totally free from interference, while encryption and security are standard. And once installed it never fails.





IP DECT provides key applications and ensures best user experience



### Corporate Directory and Presence status

Business Mobility IP DECT provides users access to the company's corporate directory. At all times the telephone numbers and names of the entire organization are at hand. Users can also see the presence of the person they need. No need to search for personal contact information or consult the nearest PC screen, just browse to the right person in your DECT handset and check the person's presence status.

### Text and Alarm messaging

Business Mobility IP DECT provides powerful text and alarm messaging capabilities for a wide variety of applications in different types of business. With messaging, staff can be alerted about incidents such as a fire, nurse calls or status of industrial processes. As such it also replaces separate paging systems. Messaging includes individual messages to terminals, broadcast messages to a group of terminals and confirmation messages by the user. Different priority levels allow staff to differentiate between messages.

### Location Detection

Business Mobility IP DECT can also be used to locate DECT handsets and their users. This can be essential if e.g. staff need immediate assistance from colleagues. Pushing the SOS button on the phone, the system alerts staff to provide assistance, while the system automatically provides the location information.

### Business Mobility IP DECT ensures the best user experience:

- > Crystal clear audio quality up to HD audio
- > Appealing and ergonomic handsets deliver optimal mobility, flexibility and comfort of use
- > Easy access to a central directory and employee presence info
- > High feature transparency so you can use the same facilities while away from your desk
- > Roaming between networks allows you to use the handset on different (remote) locations
- > Full security with secure DECT air interface, uniquely identified handsets and voice encryption
- > Easy deployment - plug and play install and downloadable software in APs and handsets
- > A scalable solution (up to 2000 APs in IP DECT system) for large campuses or organizations
- > Messaging and alarming functions offer the optimum in personal security and staff safety



# Compact and professional handset for mobile office users - G266

The IP DECT handset G266 is a standard mobile handset offering a range of professional capabilities, such as central directory, loudspeaker and personal alarming.

- > High definition audio in line with CAT-iq
- > Provides many different call control features seamlessly integrated with the PBX
- > Any place accessibility improving customer satisfaction, while users keep full control over their presence
- > Valuable unified communications, including central directory access and presence
- > Intuitive user interface with colour display and icon based menus
- > A dual charger allowing an additional battery to be charged
- > Personal safety with SOS alarming key
- > Provides freedom, comfort and flexibility to the user with options such as headset and built-in trembler
- > DECT compliance for high quality speech and security





# Sophisticated mobile handset with extensive messaging capabilities - G566

The IP DECT handset G566 is a sophisticated handset that provides a range of mobile unified communications and messaging capabilities to fulfil a variety of task management scenarios.

- > High definition audio in line with CAT-iq
- > Provides many different call control features seamlessly integrated with the PBX
- > Dedicated programmable keys with led indication such as for multi-line functionality
- > Any place accessibility improving customer satisfaction, while users keep full control over their presence
- > Valuable unified communications, incl. central directory, presence, extensive messaging and alarming
- > Intuitive user interface with colour display and icon based menus
- > A dual charger allowing an additional battery to be charged
- > Personal safety with SOS alarming key
- > Provides freedom, comfort and flexibility to the user with options such as headset and built-in trembler
- > DECT compliance for high quality speech and security

The handsets satisfy advanced requirements for mobile voice and message communication in a business environment, providing mobility, flexibility and accessibility, without compromising on comfort and ease of use.



# Sophisticated mobile DECT/WiFi handset with enterprise grade capabilities - G966

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

- > High definition audio with G.722 codec in line with CAT-iq
- > Mobile Unified Communications features with central directory, presence lookup, messaging / alarming and localization
- > 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 unified communications
- > Bluetooth LE (low energy) to connect to a variety of external devices
- > Compatible with the (rack) charger of the G266 and G566 handsets
- > Appealing design and Smartphone user experience
- > Large 4-inch high resolution touchscreen plus all essential keys for call handling
- > Secure provisioning over the air
- > Dedicated keys, e.g. SOS





# Robust handset for voice and messaging in demanding environments - I766

The I766 DECT handset is a powerful communication tool and with its ruggedized design ideal for the most demanding environments such as in healthcare manufacturing and industry.

- > High definition audio in line with CAT-iq
- > Provides many call control features seamlessly integrated with the PBX
- > Any place accessibility improving customer satisfaction, while users keep full control over their presence
- > Valuable unified communications, including central directory, presence, extensive messaging and alarming
- > Additional protection to users with the man-down function, SOS alarm key, pull cord and location detection
- > Intuitive user interface with colour display and icon based menus
- > Dual - and rack chargers; also charging additional batteries
- > Bluetooth headset connectivity provides freedom, comfort and flexibility
- > DECT compliance for high quality speech and security



# Personal alarming and communication pendant for care and cure - M166 Communicator

The M166 Communicator is an alarming and communication device, ideally suited to provide personal safety to staff, patients and elderly people, such as in care and cure institutions and assisted living.

- > High definition audio in line with CAT-iq
- > The M166 provides freedom and comfort to move around
- > Pressing the alarm button will immediately alert the relevant staff and send the location\*
- > Instant speech connection with the patient for trust and comfort
- > Very easy to use: can be worn with a lanyard or a clip
- > Two charger models: a desktop and a wall model
- > DECT compliance for high-quality speech and security



## Feature overview for Business Mobility IP DECT handsets<sup>1</sup>



	<b>G266</b>	<b>G566</b>	<b>G966</b>	<b>I766</b>	<b>M166 Communicator</b>
<b>Wireless Technology</b>	DECT	DECT	DECT/WiFi	DECT	DECT
<b>Call handling features<sup>2</sup></b>					
- Auto answer	✓	✓	✓	✓	✓
- Calling name display	✓	✓	✓	✓	-
- Calling line (CLIP) display / digits	✓ / 24	✓ / 24	✓ / 24	✓ / 24	- / -
- Call logging / size	✓ / 50	✓ / 50	✓ / 50	✓ / 50	- / -
Camera	-	-	✓ (Front)	-	-
CAT-iq – HD audio	✓	✓	✓	✓	✓
Charger / multi-charger rack (handsets)	Dual / ✓ (6)	Dual / ✓ (6)	Dual / ✓ (6)	Dual / ✓ (6)	✓ / wall charger
Standby time	Up to 160 hours	Up to 160 hours	Up to 72 hours *	Up to 160 hours	Up to 80 hours
Talk time	Up to 20 hours	Up to 20 hours	Up to 8 hours **	Up to 16 hours	Up to 3 hours
Display	Color, 128x128, 1.44"	Color, 176x220, 2"	Color, 480x800, 4"	Color, 240x320, 2,4"	-
Headset (connector/Bluetooth)	✓ / -	✓ / -	✓ / ✓ + (BLE)	✓ / ✓	✓ / -
IP-class	IP40	IP40	IP40	IP65	IP65
IECEEx (ATEX)	-	-	-	Ex version	-
Location detection: RSSI / beacon	✓ / -	✓ / -	✓ / -	✓ / with DLA	✓ / with DLA (M166CL)
Man down alarm / Pull cord alarm	- / -	- / -	✓ / ✓	✓ / ✓	- / ✓
Messaging / SOS button	- / ✓	✓ / ✓	✓ / ✓	✓ / ✓	✓ *** / ✓
Multi-line / Programmable keys	- / -	✓ / 4 keys	- / -	✓ / 4 keys	-
Memory card for handset settings	uSD	uSD	uSD	uSD	-
Personal / Central directory	200 / ✓	200 / ✓	Android / ✓	200 / ✓	- / -
Software download over the air	✓	✓	✓ (via WiFi)	✓	✓
Speakerphone / HD quality	✓ / -	✓ / ✓	✓ / ✓	✓ / ✓	✓ / -
Vibrator alarm	✓	✓	✓	✓	✓
ISIP	-	✓	-	✓	-

1) For details, see the datasheets for each type of handset. 2) Availability depends on local market situation and frequency band. Contact your local NEC dealer for more information

\*) WiFi and BT are off, DECT is standby \*\*) DECT mode only \*\*\*) Alarm handling only

# 10 compelling reasons for Business Mobility IP DECT

## 1 It's proven and reliable

Business Mobility IP DECT builds on proven and mature technology

## 2 It's scalable

IP DECT is scalable for 1 to 2000 Access Points, offering seamless handover

## 3 It's affordable

It is very attractively priced without complex licensing structure

## 4 It's integrated

It offers all the relevant features users expect from any business telephone

## 5 Rich choice of terminals

For every user-profile a specific handset and a choice of features, applications and accessories

## 6 True mobility across locations

With IP DECT the handset will subscribe automatically in other locations allowing users to stay reachable under the same number

## 7 Easy deployment and management

Encryption and security are standard. IP DECT also comes with powerful management tools; handset software can be downloaded 'through the air'

## 8 Makes Unified Communications a reality

All IP DECT handsets share the same central directory which is always up-to-date. The directory even shows the presence of the required person

## 9 Powerful messaging to alarm and alert staff

Alarms and text messages will alert staff, helping them to respond immediately to calamities

## 10 Protects investment

IP DECT uses open standards such as the open messaging interface, the SIP protocol, new CAT-iq standards and Android



### Corporate Headquarters (Japan)

NEC Corporation  
[www.nec.com](http://www.nec.com)

### Australia

NEC Australia Pty Ltd  
[au.nec.com](http://au.nec.com)

### Americas (US, Canada, Latin America)

NEC Corporation of America  
[www.necam.com](http://www.necam.com)

### Asia Pacific

NEC Asia Pacific  
[www.nec.com.sg](http://www.nec.com.sg)

### EMEA (Europe, Middle East, Africa)

NEC Enterprise Solutions  
[www.nec-enterprise.com](http://www.nec-enterprise.com)

About NEC Corporation - NEC Corporation is a leader in the integration of IT and network technologies that benefit businesses and people around the world. By providing a combination of products and solutions that cross utilize the company's experience and global resources, NEC's advanced technologies meet the complex and ever-changing needs of its customers. NEC brings more than 100 years of expertise in technological innovation to empower people, businesses and society. For more information, visit NEC at <http://www.nec.com>

10-098-06 November © 2016 NEC Corporation. All rights reserved. NEC is a registered trademark of NEC Corporation. Other product or service marks mentioned herein are the trademarks of their respective owners. Models may vary for each country, and due to continuous improvements this specification is subject to change without notice.