

Reliable Wireless Communication



Global standard for cordless voice & data communication



DECT @ HOME

Nice to hear from you

DECT at Home provides secure voice communication and concurrent access to the Internet hence setting new horizons for comfort, convenience, and security for everybody in home situations:

- Mobility instead of wires
- Features for easy communication
- Wide range of products

MMS



Keep in touch

Stay in touch with the world and communicate the way you want:

- Secure, high quality voice calls
- Exchange information by SMS via the fixed network
- Share emotions by MMS via the fixed network
- Use building management, burglar alarm and other home-control solutions

Expect the unexpected

Emerging DECT applications provide fun and convenience to the customers and new growth and revenue opportunities to manufacturers and fixed line operators:

- Access your web-based address book
- Store your MMS on PC
- Stream your audio files everywhere at home
- Benefit from instant messaging via the fixed network



SMS

VOICE

MAN-MACHINE

Reduce downtime and increase productivity

Use DECT systems and devices to reduce downtime, to increase productivity, to increase customer satisfaction, to speed up your workflow, and bring efficiency to your organisation.

Enterprise DECT users will benefit from innovative new DECT products and applications in the existing infrastructure.

From all available on-site technologies DECT is the only one delivering:

- excellent voice and data in one device
- unlicensed radio frequencies
- protected radio frequencies
- encrypted voice communication
- world wide deployment
- reliable and secure technology

Fast response time

Reach your key people immediately and benefit from their instant response

- Hospital
- Production
- Maintenance Service
- Security

Access information where you need it

Access your crucial business information where you need it and when you need it. Saves time, saves money. Open Data Access Profile will enable device manufacturers and system integrators to develop applications based on existing or new infrastructure from any of DECT Forum's members.



VOICE



DECT @WORK

DATA

Frequency Bands

1880 - 1900 MHz
1900 - 1920 MHz
1910 - 1930 MHz
(depending on country)

Transmission Power

100 mW - 250 mW

Range

typ. 300 m

Data Speed

3 Mbit/s
(raw data rate)

Total System Bandwidth

30 Mbit/s

Modulation

GFSK, BT=0.5
 $\pi/2$ DPSK
 $\pi/4$ DQPSK
 $\pi/8$ D8PSK

Timeslots

24

Frequency Carriers

10
(in a 20 MHz band)

Quality of Service Control

On-the-fly bandwidth negotiation and control

Access Security

Built-in 128-bit authentication and identification

Transmission Security

Built-in encryption based on derived or static 64 bits cipher keys

Connection Types

Asymmetric/symmetric
Asynchronous/synchronous
direct peer-to-peer

What is DECT

DECT stands for "Digital Enhanced Cordless Telecommunications" and denotes a radio technology suited for voice data and networking applications with range requirements up to a few 100m, furthermore DECT operates in an unlicensed, protected frequency band. A broad selection of integrated DECT circuits, RF parts, reference designs and complete DECT modules is available today. The DECT standard has been developed by the "European Telecommunication Standardization Institute" (ETSI) and is recommended by the "International Telecommunication Union" (ITU) for worldwide deployment.

With its broad global industry support, DECT will remain the leading worldwide standard for secure, reliable, unlicensed and protected cordless communication.

Key Benefits

DECT is being used for 12 years now – until today, more than 120 million systems have been sold – and sales still grow by more than 10% per year. Why?

- No other technology is that reliable
- No other digital technology is cheaper
- DECT is a worldwide, open standard with interoperability between different products from different vendors
- It offers one wireless network for simultaneous voice and data, even in one device
- DECT is approved by the ITU as member of the global IMT-2000 standard
- Many DECT systems can operate in parallel and independently in the same area.
- Unlicensed and protected use of frequency spectrum
- Secure, encrypted voice and data transmission
- DECT operates in single and multi-cell environments

DECT Forum

The DECT Forum is the globally acting industry association embracing suppliers and operators of DECT based terminals, systems, and networks. Every operator, manufacturer, or other entity supporting or using DECT can apply to DECT Forum membership, DECT Forum membership offers the following value adds for the members:

- Make use of DECT Forum Marketing and Promotion resources
- Collaborating in Market Initiatives of the DECT Forum, enhancing business of the members in current markets and acquiring new markets worldwide.
- Having access to a Common Forum where DECT manufacturers and operators world-wide analyze all DECT related aspects, from technical to marketing, sharing the most accurate information possible and the widest viewpoints as well.



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12 years of success
and still growing