

DECT technology: a reliable and high-performance communication solution

In a world where wireless communication is essential, DECT (Digital Enhanced Cordless Telecommunications) stands out as a key solution for both businesses and individuals. This **wireless communication** standard offers exceptional sound quality, extended range, and enhanced security, making it the ideal choice for professional telephony systems.

History of DECT technology

DECT was developed in Europe in the 1980s and standardized in the early 1990s. Its initial goal was to **improve cordless telephony** by providing a more reliable and **secure solution** than earlier analog technologies. Today, DECT is widely adopted globally for both voice communications and specific data transmission applications.

What is DECT technology?

DECT is a wireless telecommunications standard specifically designed for voice and data transmission. Unlike Bluetooth and Wi-Fi, which are often subject to interference, DECT operates on a dedicated frequency band (1.8 - 1.9 GHz in Europe), ensuring a **stable and smooth connection**.



Main uses of DECT technology

DECT technology is widely used in various fields, including:

- **Home and professional telephony:** Ideal for cordless phone systems, offering enhanced mobility.
- **Enterprise communication systems:** Supports efficient management of both internal and external calls.
- **Medical sector:** Used in nurse call systems and secure hospital communications.
- **Industry and logistics:** Perfect for internal communications in warehouses and factories.
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The advantages of DECT for your communications

Exceptional sound quality

DECT ensures clear conversations thanks to its **optimized bandwidth**, minimizing interference.

Extended range

Unlike Bluetooth, DECT offers coverage of up to **50 meters indoors** and **300 meters outdoors**.

Enhanced security

DECT's encryption prevents eavesdropping, **ensuring confidential exchanges**. The advanced encryption system makes it very difficult to intercept or hack.

Multi-User management

Ideal for businesses, DECT allows **multiple handsets to be connected to a single base**, simplifying call management.

Airlink 2085 and Airlink 3085: advanced DECT solutions for aviation and industry

Globalsys has developed state-of-the-art DECT communication solutions tailored for high-performance **industrial** and **aviation environments**.

Airlink 2085

The **Airlink 2085** is a **wireless full-duplex communication system** designed to enhance ground crew operations. Thanks to DECT technology, it ensures crystal-clear communication between ground personnel and cockpit crews, even in noisy environments like airports and aircraft maintenance areas. The system provides exceptional range, reliability, and security, making it a key asset for ground-handling teams.



[Discover our Airlink 2085 headset](#)

Airlink 3085

Building on the success of the Airlink 2085, the **Airlink 3085** offers **next-generation improvements**, including **enhanced noise cancellation** and **expanded connectivity options**. It is specifically engineered for mission-critical operations where seamless, interference-free communication is essential. Its rugged design and cutting-edge encryption technology make it the **ultimate DECT solution** for aeronautical and industrial applications.



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Advantages of full-duplex communication over half-duplex

Unlike half-duplex systems (e.g., walkie-talkies), where only one person can speak at a time, DECT's full-duplex communication allows both parties to **speak and listen simultaneously**, providing a more natural and efficient conversation flow.

Key Benefits of full-duplex:

- **More natural conversations:** Interactions are seamless, similar to face-to-face discussions, with no interruptions.
- **Reduced Latency:** Immediate transmission and reception, crucial in professional environments.
- **Improved Collaboration:** Especially beneficial for conference calls or dynamic business discussions.

In summary

DECT's full-duplex communication significantly enhances user experience by ensuring smoother and more efficient interactions compared to half-duplex systems. With innovations like the **Airlink 2085** and **Airlink 3085**, Globalsys continues to push the boundaries of **wireless communication technology**, offering **unparalleled reliability and performance** for demanding professional environments.

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Globalsys

2 bis avenue des Coquelicots,
94380, Bonneuil-sur-Marne

Site : <https://global-sys.com/>

@ : sales@globalsys.fr



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