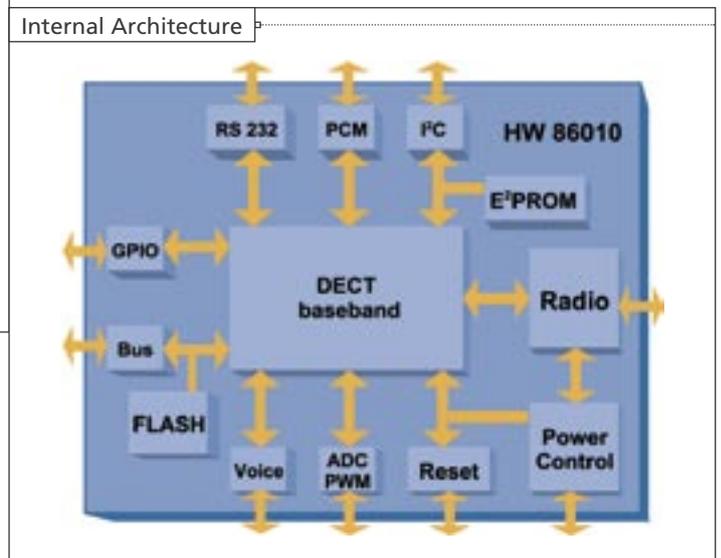


HW86010

DECT Transceiver Module:
The optimum embedded wireless solution

The DECT module HW86010 is a highly versatile and powerful engine for embedded DECT applications.



The architecture of the HW86010 supplies a full set of useful features for voice and data services in various environments.

The module performs the complete radio and baseband processing of DECT signals including errorcorrecting data link protocols. It can be used in point-to-point and network applications.

Interfaces include RS-232 for serial data, PCM connection (IOM-2 style) or analogue for voice, I2C and analogue input/output. General purpose digital I/Os and a bus interface make the HW 86010 easily expand-able. Optimally suited for data transmission the HW 86010 offers reliable data channels up to 500KBd.

DECT — The ideal wireless technology

DECT (Digital Enhanced Cordless Telecommunications) is a highly successful wireless technology. The open DECT standard is accepted in more than 100 countries worldwide. DECT offers competitive advantages for voice and data transmission.

- Exclusive frequency bands eliminate interference
- DECT is free of collisions and congestions
- Co-located DECT systems work together
- Systems are scaleable to multicell networks
- Up to 64 radio links per base station

Key Advantages

- High speed data transmission paired with low power consumption
- Very small footprint for easy integration
- Versatile interfaces for all sorts of data and voice applications
- Suited for point-to-multipoint
- Prepared for voice services
- Prepared for the future through simple firmware upgrades

Typical Applications

- Wireless internet access
- Radio networks
- Mobile data acquisition
- Automation and industrial control

Competent in DECT

Höft & Wessel has been a pioneer in wireless data transmission over DECT and is technology leader in that market. Skilled system engineers continually upgrade and customise the Höft & Wessel communication products for your benefit.

Benefits of a modular concept

All radio products from Höft & Wessel are based on a modular concept with out-standing advantages:

- Standard modules give best value at lowest price because of volume production
- No initial development costs because of ready-to-use functionality
- Change between DECT and FHSS standards just by plugging-in a different module
- Shorter development cycle, means early time-to-market

Chose from a family of modules the optimum solution for your requirements. All modules are interface compatible and inter-operable to equipment following the same radio standard. All radio functions are perfectly encapsulated for the benefit of a much simpler overall design.

Technical Data

Dimensions	Approx. 52 x 37 x 8mm
Weight	30g
Temperature range	-10 to +55°C operating
Operating voltage	3.0 to 3.6V DC for digital part 3.3 to 4.7V DC for radio frequency part
CLDPS power consumption	-12mA @ Idle -110mA @ 115KBd -300mA @ 500KBd
Frequency	1.88 to 1.9GHz
Transmit power	250mW max.
Data rate	Up to 500Kbps with CLDPS
Standards	-EN 300 175 (DECT Common Interface) -ETS 300 651 (Data Services DSP C.2)
Certification	-EN 301 406 (TBR6 2nd edition) -EN 60 950/2000 (safety) -ETS 301 489-6 (EMC)
Approval	ETSI (EU)
Interface	50-pin system interface
Data interface	RS-232, 3.3V, up to 115.2KBd RTS/CTS Handshake
Modem lead signals	RTS/CTS, DTR/DSR, DCD, RI
I/O interface	General purpose I/O pins
Analogue interface	Microphone, speaker, ringer
Other interfaces	PCM, I2C, bus interface
Antenna system	2 integrated antennas, External antenna connector (solder pads)
Range	Up to 300m (outdoor) Up to 60m (indoor)