SC14CVMDECT:
The world's smallest DECT module
The fastest way to a wireless voice solution

One complete solution

The SC14CVMDECT is a member of Dialog's cordless module family that integrate a radio transceiver and baseband in a single package. It is designed for hosted and embedded cordless voice and data applications in the DECT (1.9GHz) frequency band. Furthermore the module offers a simple solution using API commands that enable the setup of wireless links between two or more nodes.

Reduce development time

To simplify development and reduce time to market, the SC14CVMDECT modules are supported by a development platform that combines multiple interfaces and power supply options with a USB port, serial connector and peripheral interface. The certified Module with on board software stack further simplifies the process of bringing a wireless product to market.

Example applications

The SC14CVMDECT can be used as a platform to create a diverse range of applications, including:

► Communication in large scale transportation (planes, ocean liners etc.)
► Walkie talkie
► Conferencing
► Data communication: low speed and/or high speed
► Intercom system
► Lift communication
► Baby monitoring / remote monitoring

This tiny Module with integrated antenna is fully TBR6 / FCC and J-DECT (for the Japanese market) certified making it suitable for products that are sold worldwide. It also contains the power required for a clear and stable connection to a sensor (network), conferencing application or even walkie talkie applications; all while maintaining optimum DECT range (300m). By utilising an approved technology like the SC14CVMDECT, the RF and production testing costs are also minimised.

DECT-ULE support

The Module supports a fix part in a star configured wireless sensor network for Dialog's SmartPulse™ product range. To simplify the development process, Dialog has created several example applications, these are supplied with the SC14CVMDECTDEVKT Development Kit. Each example has detailed documentation of both hardware and software components together with an overview of the principles involved.

Technical specifications SC14CVMDECT

Features

- Standards supported
  - DECT ULE (EU/US/JAPAN), Ultra Low Energy
  - 1880 – 1900 MHz in Europe
  - 1920 – 1930 MHz in USA & Canada
  - 1893.5 – 1906.1 MHz in Japan
- Software Support
  - All software support is delivered with the development kit: SC14CVMDECTDEVKT
- Antenna options
  - Integrated Antenna
  - External antenna pin available for antenna diversity

- Physical characteristics
  - 18.0 mm x 19.6 mm x 2.65 mm
  - Single sided PCB
- Power ratings
  - 2.1 – 3.45V
- Power consumption
  - Standby mode: PP 10mA (Typ); FP 60mA (Typ)
  - Talk mode: PP 47mA (Typ); FP 87mA
- Development tools
  - SC14CVMDECTDEVKT
  - Including development software (Athena) like Eclipse, IDE
  - Native GNU C/C++ compiler
  - Full documentation package
  - Application example software

DECT/Module at a glance

- Perfect voice quality
- Wideband audio support
- Interference free band
- Long range
- Small footprint
- Certified for EU, US, CAN and Japan
- With internal antenna
- DECT stack with extensive API

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