



For 900 MHz and 2.4 GHz Telephones

- Standard basic device
- Custom mask programmed device
- Custom mask programmed device with CID
- External memory (XROM) device
- External memory (XROM) device with CID



- Complete system solution
- Caller ID functionality (optional)
- Higher level of integration
- Improved voice quality
- Worldwide applications
- More design flexibility
- 2.4GHz or 900MHz radios available

Part Number	CX06815-25
Description	CODE EXHIBIT 1071 CODES Spreadsheet Solution



Baseband Devices

Basic

The Basic baseband device is a 100-pin Monopac™ device that offers the most cost-effective telephone design. It contains all the necessary firmware to provide standard functionality, including dual keypad and speakerphone features. It also offers Conexant's patented "OEM Parameters" option that enables OEMs to customize the product by setting bit fields in an external serial EEPROM device.

Custom

The Custom baseband device is a 100-pin Monopac device that offers 48 KB of ROM and 2 KB of RAM to let OEMs write custom firmware for higher-end models. To help lower costs, the device is available with or without integrated CID support.

External Memory (XROM)

The XROM baseband device is a 128-pin stand-alone device which can access up to 59 KB of external ROM. It aids firmware development by providing access to ROM emulator control signals. OEMs can use this device to achieve a fast time to market for feature-rich phones. OEMs also can store the firmware in an external memory device. Like the custom baseband device, the XROM is available with or without integrated CID support.

Flash Emulation Development Device

The Flash emulation development device is a pin-compatible development tool with the same package dimensions as the Basic or Custom baseband device. It allows programmers to evaluate and debug their code on their own production platform prior to masking a ROM device, reducing the time to market and improving the quality of the finished product.

RF Devices

Spread Spectrum Transceivers

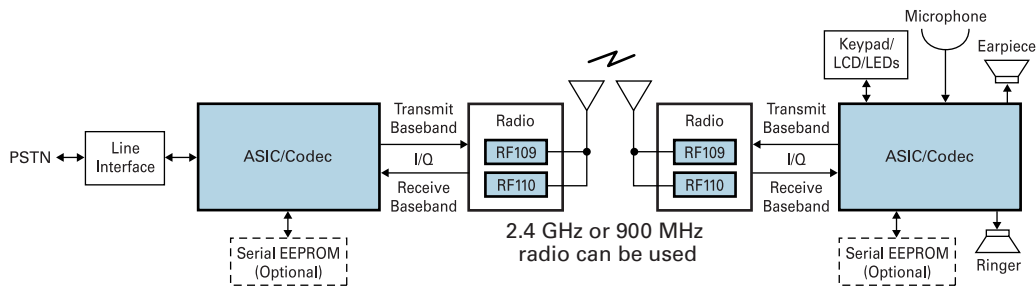
The RF105 (for 900 MHz operation) and RF109 (for 2.4 GHz operation) are fully integrated transceiver ICs that provide complete transmit, receive and frequency synthesis functions. They use a direct-conversion architecture and time division duplexing (TDD) of the transmit and receive signals to minimize circuit complexity.

Spread Spectrum Power Amplifiers

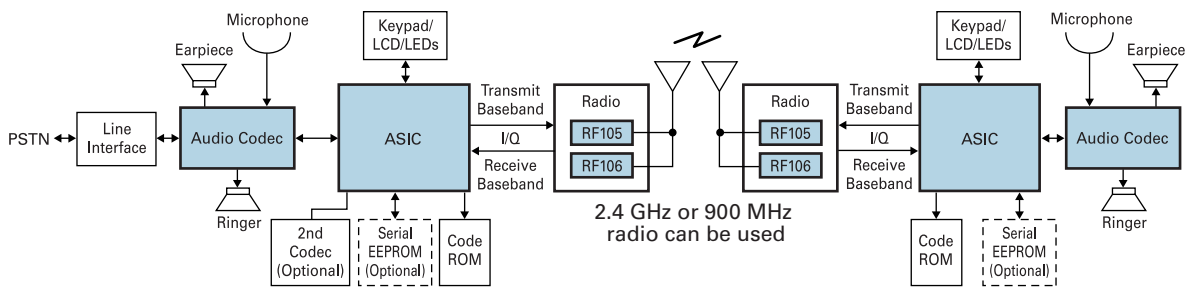
The RF106 (for 900 MHz operation) and RF110 (for 2.4 GHz operation) are class-AB power amplifiers (PA), designed for ISM band applications. They deliver output power proportional to the input signal from the RF105 or RF109 transceiver IC, up to a maximum of 100 mW.

Application Programming Interface (API)

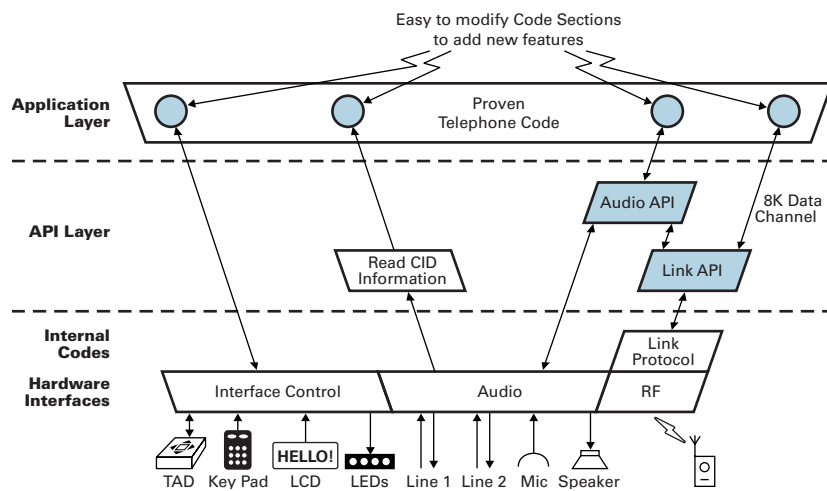
Conexant's DSS offerings provide a convenient software development environment through an Application Programming Interface (API). The API enables developers to focus on application layer software by taking care of lower-level functions such as link establishment and management as well as audio processing. The API accelerates software development activities to support fast time-to-market designs.



Basic and Custom Architecture



XROM Architecture



API Block Diagram

