General Description

The DECT PBX circuit is one of the devices of the Siemens chip set designed for cordless basestations specified by the DECT standard.

The circuit consists of two main functional blocks, these are the Burst Mode Controller (BMC) and the Digital Signal Processor (DSP).

The BMC can handle up to six DECT channels. It supports the timecritical functions specified in the DECT standard. Either 6 internal connections between handheld or 2 internal and 2 external connections can be handled. An interface to a standard 8-bit microcontroller (Motorola/Mitsubishi and Intel compatible) is implemented. The on-chip RF interface allows the control of the DECT-RF circuitry with a minimum of discrete components.

The one-chip DSP can handle PCM/ADPCM
– transcording and echosupression due to the DECT
– standard for two channels.

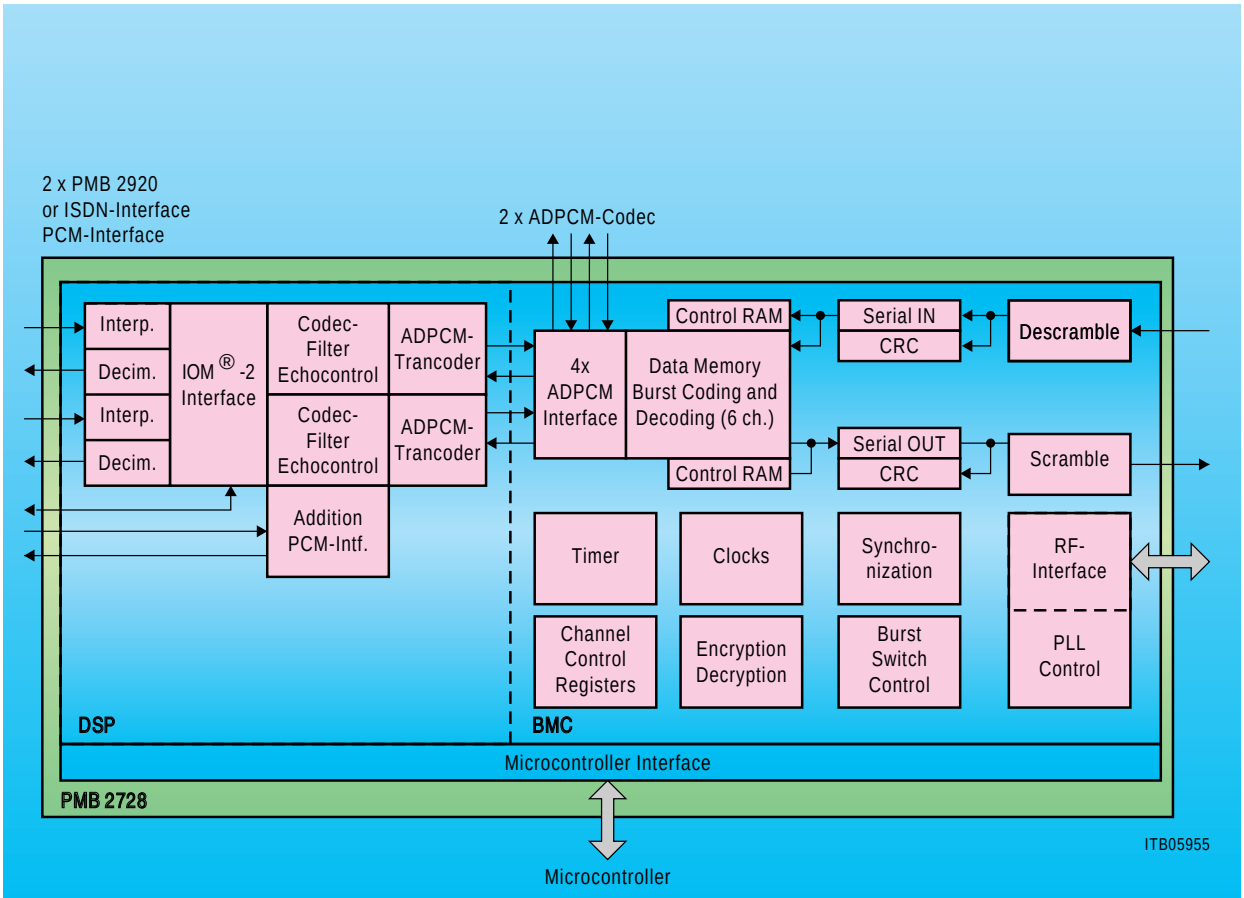
Type	Package
PMB 2728-H	P-MQFP-100-2 (SMD)

Features

- Power supply voltage: 5 V ± 5 %
- Low power consumption
- 100 pin P-MQFP packaging
- Advanced low power CMOS technology

Furthermore 1 IOM-2 interface is integrated e.r. for connection of an ISDN interface device (ISAC-S) or of a high feature codec device (ARCOFI, PSB 2163). For analog line interfaces two circuits PMB 2920 can be directly connected to the PMB 2728. Furthermore an additional PCM interface is implemented for connection of an answering machine.

The device is fabricated using Siemens advanced CMOS technology and will be available in a 100 pin package.



Block Diagram