Features

- Power Supply Control
 - Power Supply Control: Power-on Factor (2 External Signals and 2 Internal Signals)
 - Battery Voltage Detection
 - Reset Detection
 - Thermal Protection
 - SMPL (Sudden Momentary Power Loss) Function
- Power Supply Function
 - Step-down DC/DC Converter × 1 (One-shot PWM)
 - LDO × 9 (ECO-mode for LDO1 and 3)
 - Over-current Protection (All Linear Regulators)
- Li-ion Battery Charger
 - CC/CV Charge
 - Internal P-MOS, Current Sense Resistor and Schottky Diode
 - Charge Current Control by Chip Temperature
- White LED Driver and Charge Pump
 - White LED Driver for Backlight: Up to 25 mA/LED x 4
 - White LED Driver Charge Pump: Up to 100 mA
- RTC
 - Built-In Coin Charge Regulator
 - 32 kHz Crystal Oscillator (with Time Adjustment Function)
 - 32 kHz Output
- Audio CODEC
 - Voice CODEC: 16-bit Linear CODEC
 - Audio DAC: 16-bit Linear Stereo DAC
 - Tone Generator: Supports 16 DTMF Tones
 - Mono MIC Amplifier: Differential Amplifier
 - Stereo Headphone Amplifier: 22 mW (32 Ohm Load)
 - Mono Receiver Amplifier: 60 mW (32 Ohm BTL Load)
 - Mono Speaker Amplifier: 300 mW (8 Ohm BTL Load)
 - Microphone Bias Supply: Output Voltage = 2.2V
- PLL
 - Jack Detect Input 200 kOhm Pull-up
- CPU Interface
 - SPI (Max 10 MHz)
- Others
 - GPIO 4ch2ch: Common Use with ADC Input
 - 8-bit ADC (Battery Monitor, Charge Current Monitor, 2 Channels of External Input)
- Package
 - 96-pin CSP Package (Body size: 9 x 9 x 1mm, Pin pitch 0.8mm)
- Process
 - CMOS Process

1. Description

The AT73C206 is the integrated analog device for VoIP and Cellular phones. It integrates a power management IC, which includes LDO, DC/DC converter, Li-ion battery charger, White LED driver, Charge Pump, RTC and GPIO, as well as Audio CODEC in one chip.





Power Management And Analog Companions (PMAAC)

AT73C206 Power Management IC and Audio Codec

Summary

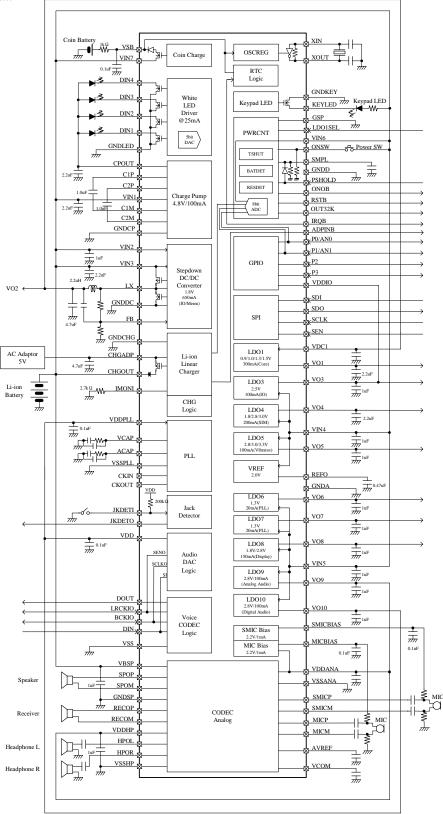
NOTE: This is a summary document. The complete document is available on the Atmel website at www.atmel.com.

6329AS-PMAAC-14-Aug-07



2. Typical Application Circuit

/ww.DataSheet4U.com



² AT73C206

Revision History 3.

Table 3-1.

Document Ref.	Comments	Change Request Ref.
6329AS	First issue	





Headquarters

Atmel Corporation 2325 Orchard Parkway San Jose, CA 95131 USA Tel: 1(408) 441-0311 Fax: 1(408) 487-2600

International

Atmel Asia Room 1219 Chinachem Golden Plaza 77 Mody Road Tsimshatsui East Kowloon Hong Kong Tel: (852) 2721-9778 Fax: (852) 2722-1369

Atmel Europe Le Krebs 8, Rue Jean-Pierre Timbaud BP 309 78054 Saint-Quentin-en-**Yvelines Cedex** France Tel: (33) 1-30-60-70-00 Fax: (33) 1-30-60-71-11

Atmel Japan

9F, Tonetsu Shinkawa Bldg. 1-24-8 Shinkawa Chuo-ku, Tokyo 104-0033 Japan Tel: (81) 3-3523-3551 Fax: (81) 3-3523-7581

Product Contact

Web Site www.atmel.com www.atmel.com/PowerMgmt

Technical Support pmaac@atmel.com

Sales Contacts www.atmel.com/contacts/

Literature Requests

www.atmel.com/literature

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