



GSM Power Management System

Preliminary Technical Data

ADP3405/ADP3406

FEATURES

Handles all GSM Baseband Power Management

Functions

Four LDOs Optimized for Specific GSM

Subsystems

Charges Back-up Capacitor for Real Time Clock

Charge Pump and Logic Level Translators for 3 V or 5 V

GSM SIM Modules

Ambient Temperature: -20°C to $+85^{\circ}\text{C}$

Thermally Enhanced 6.1 mm 28 Pin TSSOP Package

APPLICATIONS

Optimized for use with the AD20msp430 Baseband

Chipset

GSM/DCS/PCS Handsets

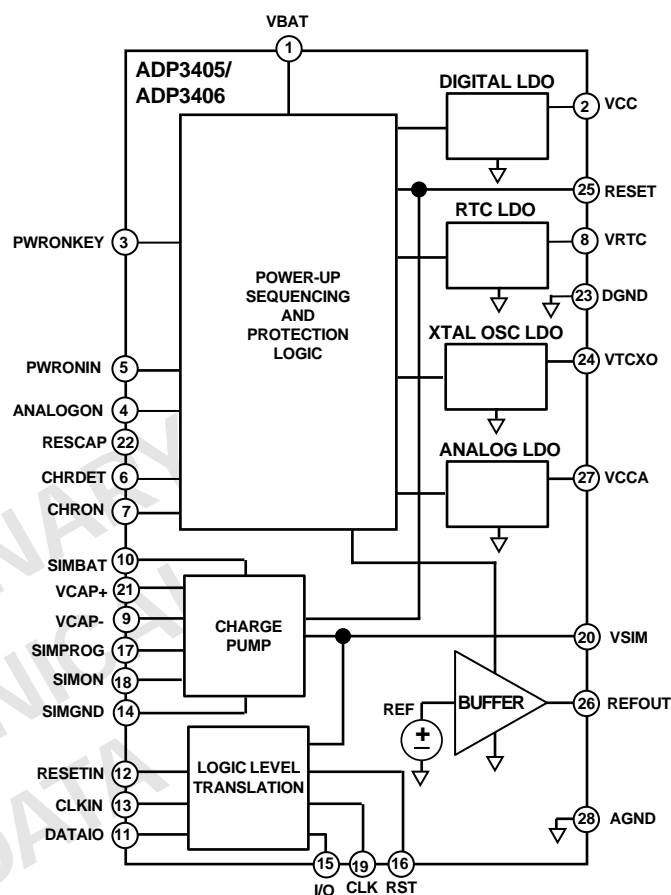
TeleMatic Systems

ICO/Iridium Terminals

GENERAL DESCRIPTION

The ADP3405/ADP3406 is a multifunction power system chip optimized for GSM cell phone power management. It contains four LDOs, one to power each of the critical GSM sub-blocks, a step-up converter for the SIM module, and level translation circuitry to adapt logic signals for 3 V or 5 V SIM modules. Sophisticated controls are available for power up during battery charging, keypad interface and charging of a back-up capacitor for the real time clock.

FUNCTIONAL BLOCK DIAGRAM



Rev. PrF

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One Technology Way, P.O. Box 9106, Norwood, MA 02062-9106,
U.S.A. Tel: 781/329-4700 World Wide Web Site: <http://www.analog.com>
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