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PRODUCT OUTLINE

CM2111bg – Ultra Low Power 8-bit ADC
Ultra Low Voltage (1V), Ultra Low Power (850nA)

Part Number

- CM2111bg

Status

- Silicon available

Features

- General purpose time-based ADC
- 8-bit resolution
- 50 SPS speed
- Ultra low power (850nA) in active mode
- Flexible supply voltage: 1.0–3.6V
- Enable control
- Indicative area: $0.04mm^2$

Overview

This macro-cell is a general purpose, ultra low power, 8-bit, time-based Analog-to-Digital Converter (ADC) core designed for LFoundry 0.15µm LF150 CMOS technology STD (Standard) and LP (Low Power) process.

The circuit is ideal for general purpose/auxiliary low frequency measurements (such as power supply voltage monitor) in applications in which ultra low power consumption is mandatory.

The core is easily retargeted to any other CMOS technology with R-poly devices.

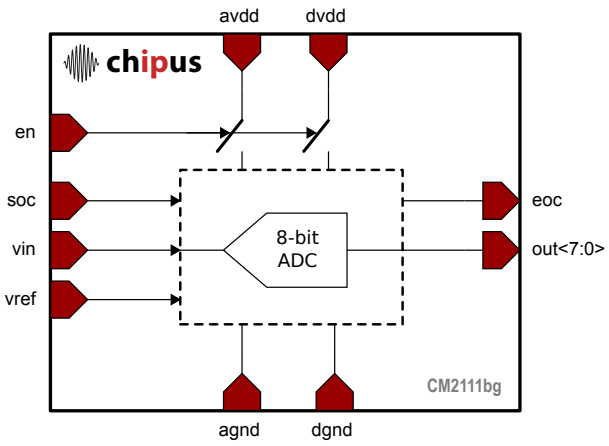
Applications

- Battery powered equipment
- Housekeeping
- Energy harvesting ICs
- Hearing aids

Technology

- LFoundry 0.15µm LF150 CMOS

Functional Diagram



Deliverables

- Datasheet/Integration Guide
- HDL Model
- Flat GDSII database/LVS netlist
- Customer Support

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Preliminary