



PRODUCT OUTLINE

CM6214ff – GP ULP Temperature Sensor
Built-in Sigma-Delta modulator - Low Quiescent Current

TempSensor

- CM6214ff

Features

- 10bit equivalent resolution
- Ultra low power consumption (8 μ A)
- Built-in Sigma-Delta modulator
- From -40°C to 125°C

Applications

- Environmental motitoring
- Food temperature monitoring
- RFID
- IoT node

Technology

- Silterra 0.18 μ m CMOS I18L

Deliverables

- Datasheet / Integration Guide
- HDL Model
- Flat GDS Database / LVS Netlist
- Customer Support

Status

- GDS Available

Overview

This macro-cell is an ultra low power, general purpose temperature sensor core. This IP features a built-in Sigma-Delta modulator that is responsible to convert the analog signals to digital bit stream.

This IP requires an external 80nA bias current and a 200kHz clock signal.

The core is easily retargeted to any other CMOS technology because it uses typical devices of standard CMOS technologies.

Functional Diagram

