



## PRODUCT OUTLINE

### CM1419ffm – Power-On Reset

Flexible Threshold (0.9–1.6V), Ultra Low Current (210nA)

## Part Number

- CM1419ffm

## Features

- Supply voltage: 1.0–2.0V
- Configurable assertion threshold: (920mV – 1.62V)
- Hysteresis: (39mV – 275mV)
- Low current consumption: (210nA @ 1.2V; 750nA @ 1.8V )
- Indicative area: 0.0057mm<sup>2</sup>

## Applications

- Passive/active RFID tag ICs
- Battery powered equipment
- Hearing aids

## Technology

- SiITerra 0.16µm C16G CMOS

## Deliverables

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

## Status

- Silicon available

## Overview

This macro-cell is an ultra low consumption Power-On Reset (POR) core designed for SiITerra 0.16µm C16G CMOS technology.

The on threshold sensing voltage can be configured from 960mV to 1.62V (default are 1.1V @ 1.2V and 1.23V @ 1.8V). The off threshold sensing voltage can be configured from 880mV to 1.34V. A hysteresis of 39mV to 275mV is added to avoid false reset glitches in noisy supplies.

The core is easily retargeted to any other CMOS technology.

## Functional Diagram

