



PRODUCT OUTLINE

CM6217co – General Purpose Temp. Sensor
2°C accuracy 10-bit Digital Readout

Part Number

- CM6217co

Features

- General purpose temperature sensor
- 2°C accuracy after calibration
- 976 samples/second
- 12-bit parallel digital readout: 2's complement 8-bit integer + 4-bit fractional
- Output in °C

Applications

- General purpose die temperature monitoring
- Graphics Processing Unit (GPU) temperature monitoring
- Internet-of-Things node temperature sensor

Technology

- GlobalFoundries 22nm FD-SOI

Deliverables

- Integration Guidelines
- GDS
- LVS Netlist
- Behavioral model
- Datasheet

Status

- GDS available

Overview

CM6217co is a low-power general purpose Temperature Sensor IP featuring 12-bit parallel digital readout (2's complement 8-bit integer and 4-bit fractional) representing temperature in °C and 2°C accuracy after calibration procedures.

This IP requires an external clock signal and does not require an external bias voltage/current.

Functional Diagram

