

TSEN – Temperature sensor

ULTRA LOW-POWER TEMPERATURE SENSOR FOR X-FAB 350 NM

Fraunhofer IPMS offers an ultra low power analog temperature sensor generating temperature dependent clock outputs. Optional digital counter logic is available.

Features

- Silicon proven in X-FAB XH035
- Input Voltage: 2.0 – 3.3 V
- Power consumption: 80 μ W typical
- Temperature dependent clock outputs
- Optional digital counter logic
- Adjustable power vs. measurement time

Benefits

- Low power systems
- Battery-free IoT devices
- Wireless sensor modules
- Sensor modules with long lifetime

Deliverables

- Datasheet & integration guide
- HDL model
- GDSII layout
- Customer support

Applications

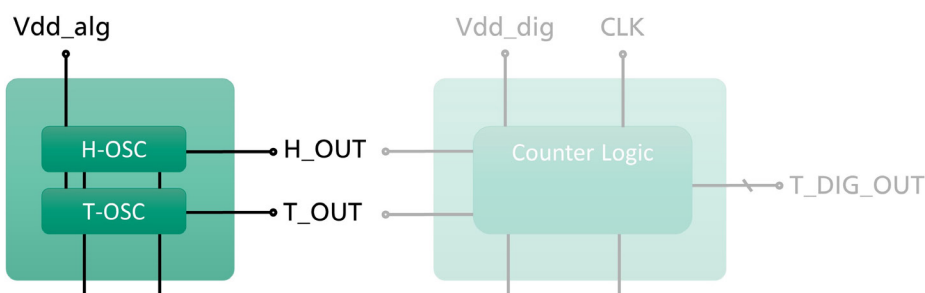
- IoT devices
- Wireless modules
- Sensor modules
- Medical devices

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Block diagram