CT21600

Ultra Low Power Charge Pump with programmable Output

Status
- Silicon Proven
- AMS 0.35µm 50V CMOS
- Easy portability

Deliverables
- Datasheet
- Integration guidelines
- GDS2 and LVS Netlist
- Footprint (.LEF)
- Test Specifications

Applications
- Low Power Handled Portable Device
- Embedded micro sensors
- Energy Harvesting circuitry
- Medical Implantable devices

Features
- Max Output Current 350µA
- Input Voltage 2.0-3.0V
- Fix Output 0.5x, x1, x1.5, x2, x3
- Programmable Output in sub-ranges with 5bit precision
- Power Consumption 800nA
- Efficiency up to 97%
- Operative temp. from 0°C to 60°C

Description
CT21600 is an ultra low power charge pump designed for power critical devices. It delivers up to 350µA with selectable output voltages (0.5x, x1, x1.5, x2, x3) from an input voltage ranging from 2.0V to 3.0V.

When a more precise output voltage is requested, a regulation circuit can be activated to adjust the output voltage with 5bit of precision.

The IP is available on 0.35um AMS 50V CMOS technology and easily portable to other processes.

The component is optimized for ease of use and integration in complex SoCs.

About us
We are delivering IPs and Services to the semiconductor industry. Intensive-analog and mixed-signal solutions are our specialty. Excellence is recognized in applications where high voltage or ultra low power specifications need to be reached with outstanding energy efficiency. We’re constantly improving the quality of the services by working passionately with a professional team of creative and motivated staff.