



**THE DATASHEET OF
NCP6343FCT1G**



Product Overview

NCP6343: 3 A Processor - Memory Supply with Dynamic Voltage Scaling, I2C Programming. Transient load helper

For complete documentation, see the data sheet.

The NCP6343 is a synchronous buck converter optimized to supply recent micro processors (ARM core processor, GPU), memories, that demand high power at low voltages of portable applications powered by one cell Li-ion or three cell Alkaline/NiCd/NiMH batteries. The device is able to deliver up to 3.0 A, with programmable output voltage from 0.6 V to 1.4 V. It could share the same output rail with another DCDC/LDO and works as a transient load helper. Operation at a 3 MHz switching frequency allows the use of small components. Synchronous rectification and automatic PWM/PFM transitions improve overall solution efficiency. The NCP6343 is in a space saving, low profile 1.99 x 1.34 mm CSP-15 package.

Features

- 2.3 V to 5.5 V Input Voltage Range
- 3 MHz Switching Frequency
- DVS support through I2C
- Enabling with pins or I2C
- IC access in off mode
- Transient Load Helper

Benefits

- Support Latest Battery
- Reduced output inductor and capacitor size
- Optimizes processor power
- Flexible enabling and disabling
- Pre programming at low power
- Share the same output rail with another DCDC/LDO without sinking current on shared rail

Applications

- Battery powered applications
- Power supply for processor with low core voltage
- LP-DDR Memory

End Products

- Cellular phones, smart phones, tablets

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