

NXP Power Management IC for Low Power Applications PCA9420

Designed to provide a full power management solution for low power applications

NXP's PCA9420 is highly-integrated Power Management IC (PMIC), greatly extends battery life, thanks to our light load power efficiency, ultra-low standby power, two integrated high-efficiency buck regulators, ultra-small footprint, and built-in "mode transition" function for fast PMIC operation mode switch. Easily compatible with an array of different MCU operation modes, it is enabling a new wave of power efficient devices for li-ion battery powered low power applications, such as hearable, fitness band, watch.

KEY FEATURES

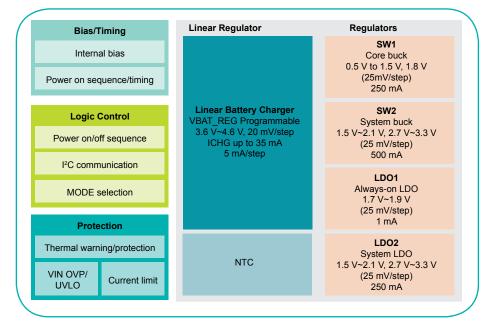
- Ultra-compact Low-Iq PMIC for Li-ion battery powered low power applications
- Very low Iq, high light load efficiency, longer system standby time
- Highly integrated solution, flexible programmability, small solution size
- > 20V DC Tolerance on Vin Pin with Programmable OVP
- Fm+ 1MHz I2C Interface
- Offered in two package options:
 - WLCSP 25-bump, 2.09mm x 2.09mm, 0.4mm pitch
 - QFN 24-pin 3mm x 3mm

TARGET APPLICATIONS

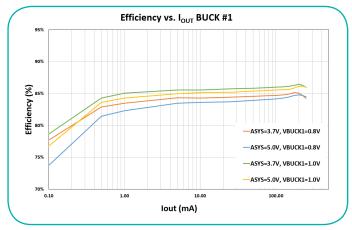
- Wearable devices
- Hearable device
- Other low-power applications powered by li-ion battery



PINOUT DIAGRAMS

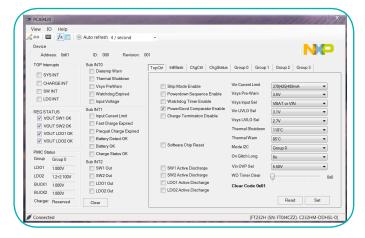


OPERATION CHARACTERISTICS EFFICIENCY CURVES FOR SW1



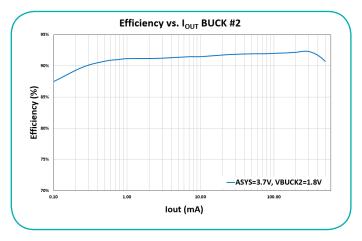


EVALUATION KIT GUI

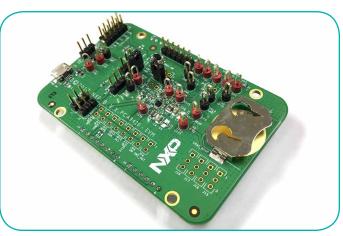


To get started and to learn more, visit www.nxp.com/PCA9420

EFFICIENCY CURVES FOR SW2



EVALUATION KIT



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