



PCA9451A Power Management IC for i.MX 93x Application Processor

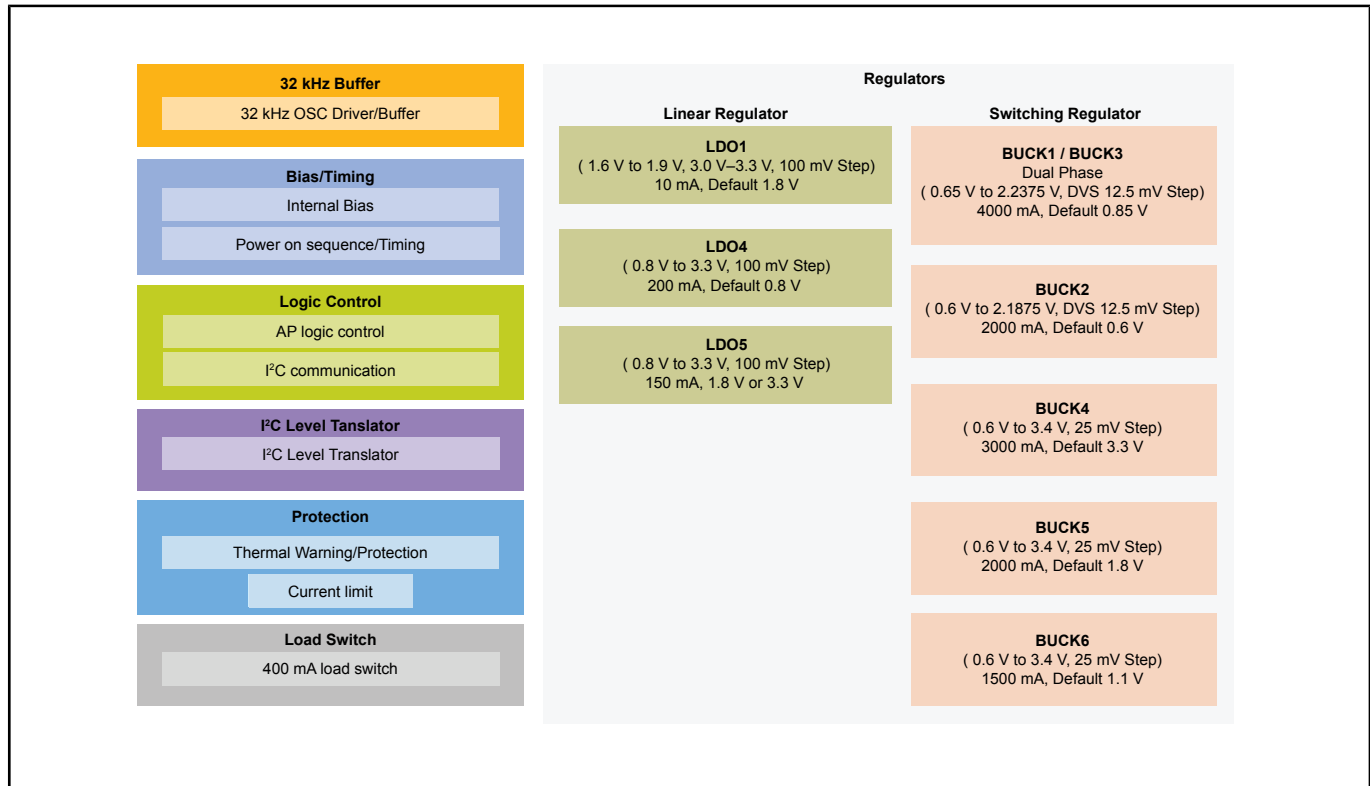
PCA9451A

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The PCA9451A is a single chip power management IC (PMIC) designed to support i.MX 93x family processor in both 1 cell Li-Ion and Li-polymer battery portable application and 5 V adapter non-portable applications. The device provides six high efficiency step-down regulators, three LDOs, one 400 mA load switch, 2-channel level translator and 32.768 kHz crystal oscillator driver.

Three buck regulators support dynamic voltage scaling (DVS)¹ along with programmable ramping up and down time. The buck regulators support remote sense to compensate IR drop to load from buck regulator, allowing better performance to meet the demand for accuracy in critical supply rails. This device is characterized across -40 °C to 105 °C ambient temperature range, making it a good option for the industrial, extended industrial and consumer markets.

PCA9451A Power Management IC for i.MX 93x Block Diagram



View additional information for [PCA9451A Power Management IC for i.MX 93x Application Processor](#).

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