



FLEXGAUGE Software Solution

FLEXGAUGE NEW

Last Updated: Dec 2, 2025

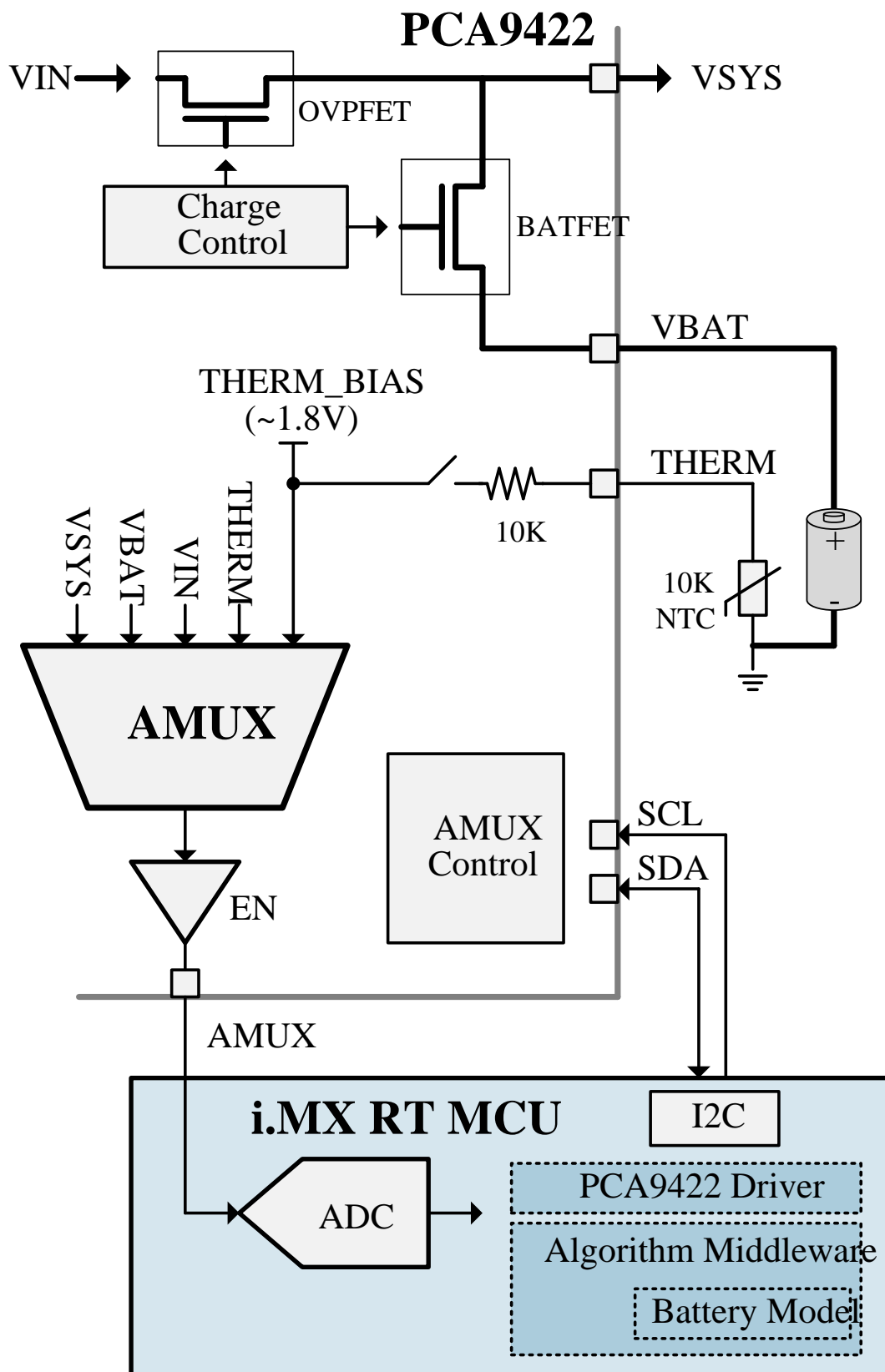
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FlexGauge™ is a host software-based battery fuel gauging solution developed by NXP Semiconductors. Designed for low-power embedded systems, FlexGauge eliminates the need for dedicated fuel gauge ICs by running entirely on the system microcontroller unit (MCU). It combines the simplicity of voltage-based estimation with the accuracy of hybrid gauging techniques—delivering precise battery state-of-charge (SoC) monitoring without the cost or complexity of traditional methods.

Powered by software-assisted load tracking, FlexGauge intelligently interprets voltage readings under dynamic conditions, enabling reliable performance across a wide range of applications—with a focus on the Internet of Things (IoT) devices and wearables.

With minimal code footprint, seamless integration into NXP supported software environments and compatibility with various Li-ion and Li-Po battery profiles, FlexGauge is the ideal solution for developers seeking efficient, scalable and cost-effective battery management.

FLEXGAUGE Software Solution Block Diagram



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