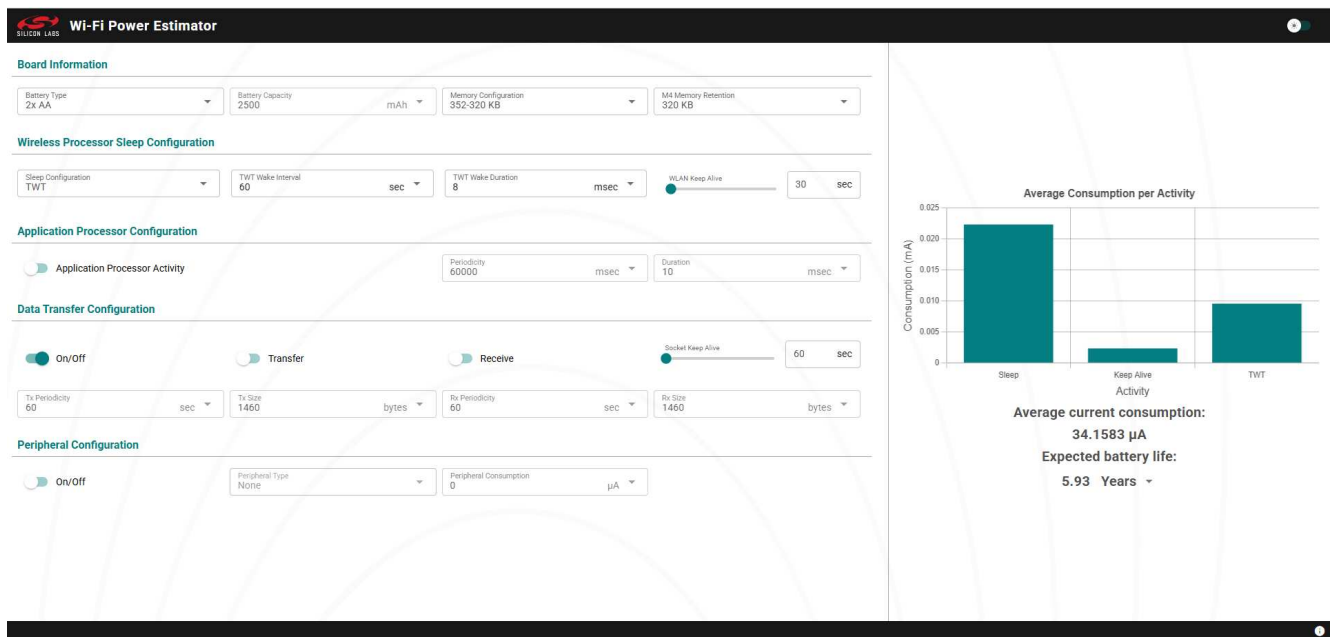


Overview

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Wi-Fi Power Estimator Tool – Overview

The Wi-Fi Power Estimator is a specialized analysis tool integrated with Simplicity Studio v6 and compatible with Simplicity Studio v5. The estimator is designed to help developers to evaluate the effects on power through choice of settings and expected application behavior profile Silicon Lab's Wi-Fi SiWx917 SoCs and modules. By using static, datasheet-derived values, the tool facilitates early-stage power profiling that enables preliminary system-level power budget assessments without requiring physical measurements or live testing.



What You Can Do with This Tool

Use the estimator to:

- Simulate real-world usage scenarios
- Estimate average current and battery life
- Visualize power consumption across different activities

Key Scenarios

This tool is especially useful for:

- Periodic sensor uploads: Estimate power usage for devices that send data at regular intervals
- Migration analysis: Compare power consumption when switching from competitor solutions
- Standby power planning: Evaluate idle power draw for always-connected IoT devices