DOLPHIN
SEMICONDUCTOR

PATENTED TECHNOLOGY

POWERSTUDIO: build safe PMU*

Productivity Tool

What is PowerStudio?

PowerStudio is an intuitive, **GUI-based tool** empowering engineers to design the most efficient **power network** architectures for their SoCs. With built-in configuration and optimization capabilities, it seamlessly integrates with a configurable **power controller**, Maestro, ensuring a precision-tuned power management.
PowerStudio also automates **UPF** files generation, accelerating design validation and reducing time-to-market.

APPLICATIONS

- Consumer SoC
- Industrial SoC
- Automotive SoC

*Power Management Unit

Meet with PowerStudio and Maestro

Software vs Hardened Power Controller comparison

Tasks	Software PMU	Hardened PMU	PowerStudio & Maestro
HW design effort	Low	Heavy	**Low**
Flexibility and configurability	High	Poor	**High**
SW design effort	Heavy	Low	**Low**
Power efficiency	Poor	High	**High**

What is Maestro

Maestro is a **power controller** that brings intelligent sequencing, real-time monitoring and adaptive power control to SoCs of any complexity. A **configurable RTL IP core**, Maestro achieves unmatched compromises between flexibility, silicon area and power efficiency. Whether managing simple or multi-domain power architectures, Maestro optimizes power delivery for **maximum efficiency** while ensuring **reliable and safe implementations**, making it the ideal solution for next-generation semiconductor designs.

DOLPHIN
SEMICONDUCTOR