

• SPIDER

# POWER MANAGEMENT IP PLATFORM

# What is SPIDER?

SPIDER is a turnkey solution to design and integrate energy-efficient power networks on SoCs.

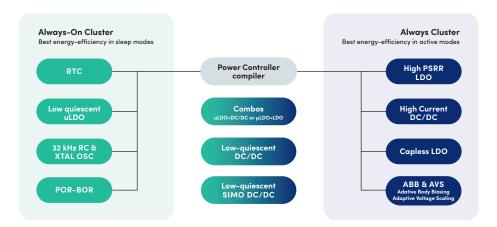
It includes a comprehensive set of voltage regulators, monitors, oscillators, power gating IPs, and a configurable digital power controller. SPIDER enables advanced low-power techniques such as adaptive body bias and voltage scaling.

SPIDER is built on Dolphin Semiconductor's stateof-the-art IP portfolio and system-level utility. It helps designers to speed up their design flow, optimize their BoM cost, and secure their silicon.

#### **APPLICATIONS**

- > High performance computing
- > Medical devices
- > Automotive electronics
- > IoT devices
- > Smartphone & Tablets
- > Consumer electronics

## **ONE-STOP SHOP PLATFORM**



#### **Flexible**

Up to 5.5 v input voltage with standard IO MOS

Down to 0.5 V programmable - no trimming required

100 mA to 15 A loads

#### **Efficient**

70% efficiency @ 10 µA DC/DC

90% peak efficiency DC/DC

3 or 4 outputs SIMO

5x performances improvement via ABB corner tightening

### Low power

350 nA lq DC/DC

640 nA lq SIMO

55 nA 32 kHz oscillator

160 nA µLDO

300 gates power controller for deep sleep mode

## Reliable

20 yrs lifetime guarantee (high reliability conf.)

Built-in safety features

User-configurable & GUI-based power controller

< 10 mVpp ripple DC/DC



