



SHARK

POWER METERING IP PLATFORM

What is Shark?

Designed to deliver precise energy measurement, Dolphin Semiconductor's Shark platform is tailored to ensure compliancy with Class 0.2 s standards for accurate billing.

Its highly accurate analog front-end (AFE) reduces errors in power calculations, making it suitable for both single-phase (residential) and three-phase (industrial) applications.

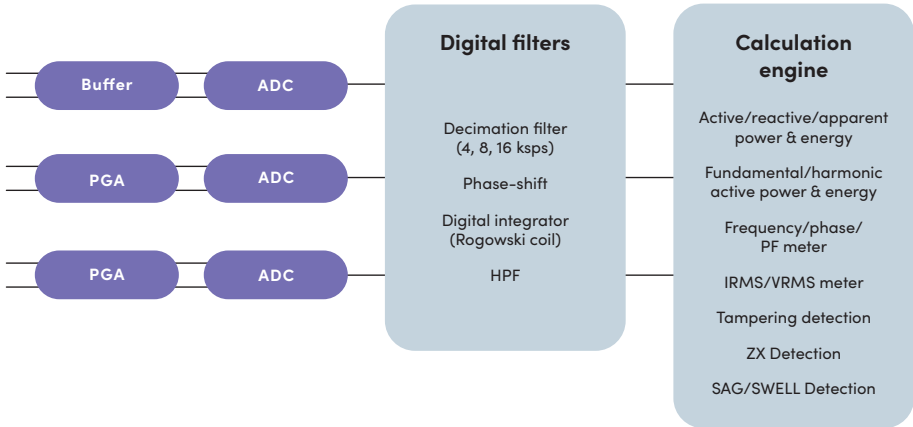
By supporting both configurations within a single IP, it simplifies design processes, accelerates development timelines, and enhances flexibility, allowing scalability across various power metering solutions while minimizing costs and complexity.

APPLICATIONS

> [Single-phase meter](#)

> [Three-phase meter](#)

ONE FITS ALL



MAIN BENEFITS

Low noise at low frequency

Low offset

Very low gain error < 0.05%
(for class 0,1)

Integrated power computation
algorithms

Pin and BOM cost reduction

Synchronized channels and phase
shifting calibration

KEY FEATURES

22-24 bit $\Delta\Sigma$ ADC

Only 1mm² total IP footprint

Built-in Power Energy Computer (PCE)

Programmable data rate up to 32 ksps

Exceeds IEC 62053-22 Classes
0.2 s requirements

Chopper stabilized PGA

Input DC blocking capacitor free



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