

ANALOG SPOTLIGHT

PAC1931

Single-Channel DC Power/Energy Monitor With Accumulator

General Information

The PAC1931 is a single power monitor and energy monitor that reports on-bus voltage and sense voltage 16-bits of resolution. Power is reported as a simultaneous product of two 16-bit independent bus and sense voltages. All registers are accessible through I²C/SMBus including an 8-sample average for reading stability.



Features

- 100 mV full scale range for current sense voltage
- Selectable bidirectional measurement capability
- 0 to 32V input common-mode voltage
- External sense resistor sets full scale current range
- 1% power measurement accuracy over a wide dynamic range
- On-chip accumulation of 28-bit power results for energy measurement
- 48-bit power accumulator register
- Sampling rates of 8, 64,256, and 1024 samples per second
- At least 17 minutes of power accumulation data at 1024 samples per second
- 2.7V to 5.5V operation
- Separate V_{DD} for I/O pin
- 1.62–5.5V capable SMBus and digital I/O
- SMBus 3.0 and I²C Fast Mode Plus
- WLCSP 2.225 × 2.17

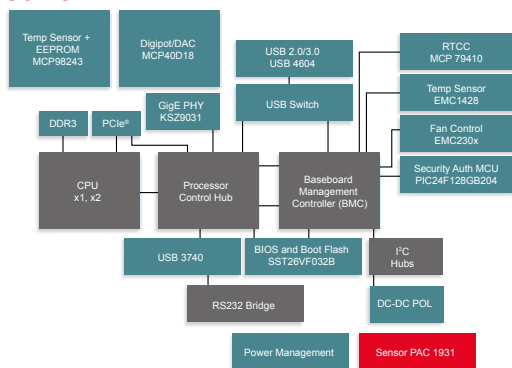
Applications

- Linux[®] applications
- Notebook and tablet computing
- Cloud, Linux and server computing
- Optical networking modules
- FPGA systems

Benefits

- Accumulates power measurements for long periods without system intervention
- Configurable for different run conditions saves power
- Device does not suffer error loss due to trace length

Server



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