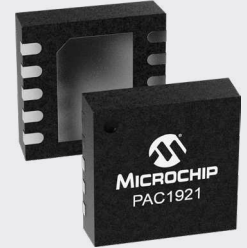


PAC1921

High-Side Current/Power Monitor with Analog Output

General Information

The PAC1921 is a dedicated power-monitoring device with a configurable analog output that can present power, current or voltage. This product is designed for power measurement and diagnostic systems that cannot allow for latency when performing high-speed power management. Measurements are accumulated in large registers, allowing for integration periods of 500 μ s to 2.9 seconds. Measurements are accumulated in large registers, allowing for integration periods of 500 μ s to 2.9 seconds.



Features

- Configurable measurement type output: power, current or bus voltage
- Configurable voltage output (3V, 2V, 1.5V, 1V) all output values also available over SMBus
- High-side current sensor
 - 100 mV full-scale current sense voltage range
 - Second-order delta-sigma ADC with 11-bit or 14-bit resolution
 - Selectable current binary gain ranges: 1x through 128x
- Auto-zero offset
- Power supply 3.3V nominal (operational range 3.0V to 5.5V)
- Bus range 0V to 32V
- Available in 10-pin 3 mm x 3 mm VDFN RoHS compliant package

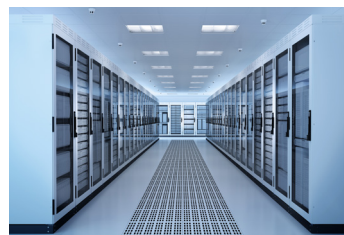
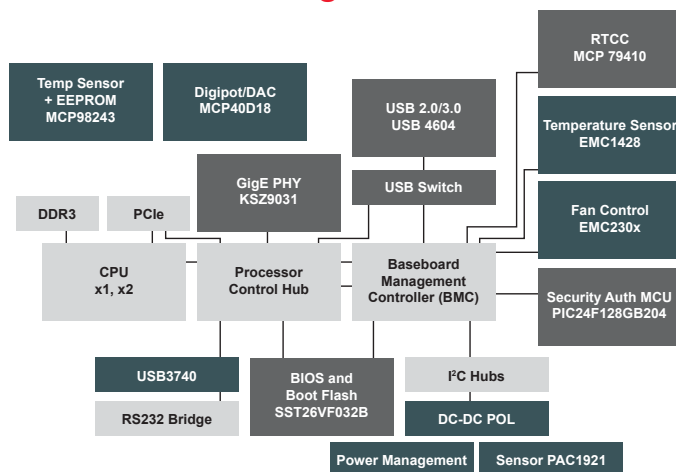
Applications

- Servers, notebooks and desktop computers
- Industrial automation
- Networking equipment
- Diagnostic equipment
- Power distribution and power supplies

Benefits

- Auto sleep state automatically shifts to low-power state
- New device topology provides integrated average power measurement
- 1% power measurement accuracy
- No filters required

PAC1921 Block Diagram



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