

Current Sensor, Power Calculation, 525 μ A, DFN, 10 Pins, 3 V, 5.5 V

Manufacturers	Microchip Technology, Inc
Package/Case	VDFN-10
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for PAC1720-1-AIA-TR or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The PAC1720 is a dual high-side bi-directional current sensing monitor with precision voltage measurement capabilities. Each sensor measures the voltage developed across an external sense resistor to represent the high-side current of a battery or voltage regulator. The PAC1720 also measures the SENSE+ pin voltage and calculates average power over the integration period. The PAC1720 can be programmed to assert the ALERT# pin when high and low limits are exceeded for Current Sense and Bus Voltage. Available in a RoHS compliant 3 X 3mm 10-pin DFN package.

The PAC1720 device is good for measuring dynamic power. The long integration time allows for extending system polling cycles without losing any power consumption information. In addition the alert ensures that transient events are captured between the polling cycles.

Features

Features

Dual high-side current sensor

Current measurement is integrated over 2.5ms to 2.6sec with up to 11-bit resolution

1% current measurement accuracy in positive range

Measures VSOURCE voltage

Calculates proportional power

VSOURCE voltage range 0V to 40V

Bi-directional current sensing

Auto-zero input offset voltage

Digital averaging

Adjustable sampling time and resolution

5 μ A typical Standby current

Programmable sense voltage range

Power supply range 3.0V to 5.5V

Wide temperature operating range: -40°C to +85°C

ALERT# output for voltage and current out of limit transients between sampling interval

SMBus 2.0 communications interface

Address selectable by resistor decode

Sample time configurable from 2.5ms-320ms

With averaging effective sampling times up to 2.6sec

3x3 mm DFN-10 package

Application

Notebook and Desktop Computers

Industrial

Power Management Systems

Embedded Applications



Related Products



[PAC1710-1-AIA-TR](#)

Microchip Technology, Inc
VDFN-10



[TC4426EPA](#)

Microchip Technology, Inc
PDIP-8



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