

Current Sensor, Power Calculation, 360  $\mu$ 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 PAC1710-1-AIA-TR or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The PAC1710 is a high-side bi-directional current sensing monitor with precision voltage measurement capabilities. The power monitor measures the voltage developed across an external sense resistor to represent the high-side current of a battery or voltage regulator. The PAC1710 also measures the SENSE+ pin voltage and calculates average power over the integration period. The PAC1710 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.

## Features

Features

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 $\mu$ 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



### [PAC1720-1-AIA-TR](#)

Microchip Technology, Inc  
VDFN-10



### [TC4426EPA](#)

Microchip Technology, Inc  
PDIP-8



### [TC4421EPA](#)

Microchip Technology, Inc  
PDIP-8



### [TC4426AVPA](#)

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[TC7662AEPA](#)

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[TC1232EPA](#)

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[TC4424CPA](#)

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