

## PAC1944T-E/4MX

Data Sheet

9V, High Side Sensing/4 - Channel Power Monitor w/Accumulator

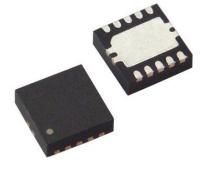
Manufacturers <u>Microchip Technology</u>, Inc

Package/Case VQFN

Product Type

**RoHS** 

Lifecycle



Images are for reference only

Please submit RFQ for PAC1944T-E/4MX or Email to us: sales@ovaga.com We will contact you in 12 hours.

**RFO** 

### **General Description**

The PAC1944 is a quad 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. The device can detect over/undervoltage, over/undercurrent and overpower against user programmed limits for each channel and generate ALERT outputs.

#### **Features**

High-Side Current Monitor with Four Channels

100 mV Full-Scale Range (configurable to 50mV)

External Sense Resistor Sets the Full-ScaleCurrent Range

Voltage Monitor with Wide VBUS Range

0V to 9V FSR (configurable to 4.5V)

16-bit Resolution

Real-Time Auto-Calibration of Offset Error for Voltage and Current

1% Power Measurement Accuracy over a WideDynamic Range

On-Chip Accumulation of 30-bit Power Results for Energy Measurement

User Programmable Sampling Rates of 8, 64,256 and 1024 SPS

5120 SPS for a Single Channel in Burst Mode

2.7V to 5.5V Supply Operation

1.62-5.5V Capable I2C/SMBus and Digital I/O

SMBus 3.1 and I2C Fast Mode Plus, 1 Mbps

High-Speed Mode (3.4 Mbps)

Two Independent ALERT/GPIO pins

ALERT on Over/Undervoltage and Current or Overpower Conditions

Coulomb Counting: When Selected, the Accumulator Accumulates VSENSE Values

#### **Related Products**



#### PAC1954T-E/4MX

Microchip Technology, Inc VQFN



#### DSA612PA3A-0130TVAO

Microchip Technology, Inc VFLGA



#### PAC1952T-2E/4MX

Microchip Technology, Inc VQFN



#### DSA612PA2A-01DMTVAO

Microchip Technology, Inc VFLGA

#### DSA612PA3A-0130VAO



Microchip Technology, Inc VFLGA



Microchip Technology, Inc VFLGA

DSA612PA2A-01DMVAO

# DSA612PA3A-01R6TVAO



Microchip Technology, Inc VFLGA



#### DSA612PA3A-01R6VAO

Microchip Technology, Inc VFLGA