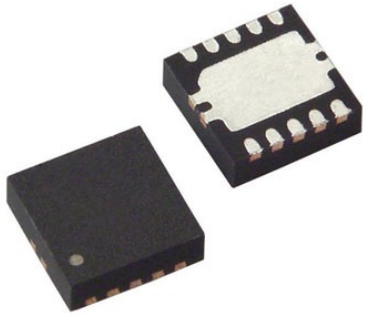
PAC1954T-E/4MX

Data Sheet

32V, High Side Sensing/4 -Channel Power Monitor w/Accumulator

Manufacturers	Microchip Technology, Inc
Package/Case	VQFN
Product Type	
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for PAC1954T-E/4MX or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The PAC1954 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/ Low-Side Power Monitor with 2 Channels

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

External Sense Resistor Sets the Full-Scale Range Current

16-Bit Resolution Sense Current

Voltage Monitor with Wide VBus Range

0V to 32V FSR (configurable to 16V)

16-Bit Resolution

Real-Time Auto-Calibration of Offset Errorfor Voltage and Current

1% Power Measurement Accuracy Over a Wide Dynamic Range

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

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

5120 SPS for a Single Channel 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

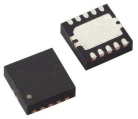
High Speed Mode (3.4 Mbps)

ALERT on Over/Undervoltage and Current or Overpower Conditions

Two Independent ALERT/GPIO Pins

Coulomb Counting: When Selected, the Accumu lator Accumulates VSENSE Values

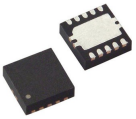
Related Products



PAC1944T-E/4MX

Microchip Technology, Inc

VQFN



PAC1952T-2E/4MX

Microchip Technology, Inc

VQFN

DSA612PA3A-0130TVAO

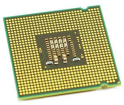
Microchip Technology, Inc

VFLGA

DSA612PA2A-01DMTVAO

Microchip Technology, Inc

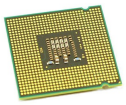
VFLGA



[DSA612PA3A-0130VAO]

Microchip Technology, Inc

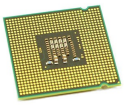
VFLGA



[DSA612PA2A-01DMVAO]

Microchip Technology, Inc

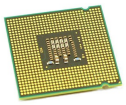
VFLGA



[DSA612PA3A-01R6TVAO]

Microchip Technology, Inc

VFLGA



[DSA612PA3A-01R6VAO]

Microchip Technology, Inc

VFLGA