

Zero Drift, Bidirectional Current/Power Monitor With I2C Interface



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[Inquiry](#)

Manufacturer: [Texas Instruments, Inc](#)

Package/Case: SOIC-8

Product Type: Power Management ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

The INA219 is a current shunt and power monitor with an I2C- or SMBUS-compatible interface. The device monitors both shunt voltage drop and bus supply voltage, with programmable conversion times and filtering. A programmable calibration value, combined with an internal multiplier, enables direct readouts of current in amperes. An additional multiplying register calculates power in watts. The I2C- or SMBUS-compatible interface features 16 programmable addresses.

The INA219 is available in two grades: A and B. The B grade version has higher accuracy and higher precision specifications.

The INA219 senses across shunts on buses that can vary from 0 to 26 V. The device uses a single 3- to 5.5-V supply, drawing a maximum of 1 mA of supply current. The INA219 operates from -40°C to 125°C.

Key Features

Senses Bus Voltages from 0 to 26 V

Reports Current, Voltage, and Power

16 Programmable Addresses

High Accuracy: 0.5% (Maximum) Over Temperature (INA219B)

Filtering Options

Calibration Registers

SOT23-8 and SOIC-8 Packages

Recommended For You

INA3221AIRGVR

Texas Instruments, Inc

VQFN16

INA200AQDGKRQ1

Texas Instruments, Inc

MSOP8

INA196AIDBVT

Texas Instruments, Inc

SOT23-5

INA220AIDGSR

Texas Instruments, Inc
MSOP10

INA198AQDBVRQ1

Texas Instruments, Inc
SOT23-5

INA228AQDGSRQ1

Texas Instruments, Inc
VSSOP-10

INA237AQDGSRQ1

Texas Instruments, Inc
VSSOP10

INA168QDBVRQ1

Texas Instruments, Inc
SOT23-5

INA226AQDGSRQ1

Texas Instruments, Inc
VSSOP10

INA3221AQRGVRQ1

Texas Instruments, Inc
QFN16

INA195AIDBVR

Texas Instruments, Inc
SOT23-5

INA197AIDBVT

Texas Instruments, Inc
SOT23-5

INA213AQDCKRQ1

Texas Instruments, Inc
SC70-6

INA300AQDGSRQ1

Texas Instruments, Inc
VSSOP-10

INA196AIDBVR

Texas Instruments, Inc
SOT23-5