

AFE General Purpose 6 ADC 24bit 3.3V/5V Automotive 28-Pin SSOP Tube



Images are for reference only

[Inquiry](#)

Manufacturer: [Microchip Technology, Inc](#)

Package/Case: SSOP-28

Product Type: Data Conversion ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

The MCP3903 six channel analog front end, ideal for three phase energy measurement, power monitoring, and other applications requiring multiple high accuracy ADCs. The MCP3903 features high accuracy 16/24-bit delta-sigma A/D converters, internal programmable gain amplifiers, an internal voltage reference, and phase-delay compensation with up to 91 dB SINAD. Communication with the MCP3903 is done via the SPI interface enabling control of the PGAs, oversampling ratio for control of the output data rate (up to 64 ksps), resolution, dithering, shutdown and other communication features.

For product comparison, please consider: MCP3913

Key Features

91dB SINAD

-100dBc Total harmonic distortion (THD) (up to 35th harmonic)

102dB Spurious-free dynamic range (SFDR) for each channel

Programmable data rate up to 64kSPS

Ultra low-power shutdown mode with <math><2\mu\text{A}</math>

-115dB Crosstalk between any two channels

5ppm/°C Low drift internal voltage reference

Differential voltage reference input pins

High gain PGA on each channel (up to 32V/V)

Phase delay compensation between each pair of channels with 1μs time resolution

High-speed addressable, 10MHz SPI interface with mode 0,0 and 1,1 compatibility

Independent analogue and digital power supplies

Recommended For You

MCP3911A0-E/SS

Microchip Technology, Inc
SSOP20

MCP3008-I/P

Microchip Technology, Inc
DIP-16

MCP3201T-CI/SN

Microchip Technology, Inc
SOP8

MCP3208-CI/P

Microchip Technology, Inc
DIP

MCP3001-I/SN

Microchip Technology, Inc
SOP8

MCP3208-BI/P

Microchip Technology, Inc
DIP-16

MCP4822-E/P

Microchip Technology, Inc
DIP-8

MCP3421A0T-E/CH

Microchip Technology, Inc
SOT23-6

MCP3425A0T-E/CH

Microchip Technology, Inc
SOT23-6

MCP3427-E/UN

Microchip Technology, Inc
MSOP10

MCP3550-50E/SN

Microchip Technology, Inc
SOP8

MCP3422A0-E/SN

Microchip Technology, Inc
SOP-8

MCP3553-E/SN

Microchip Technology, Inc
SOP8

MCP3422A1-E/SN

Microchip Technology, Inc
SOP-8

MCP3208T-CI/SL

Microchip Technology, Inc
SOP