
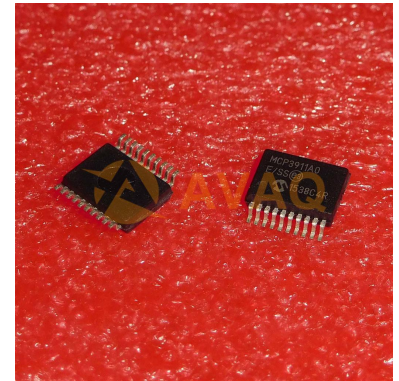


AFE General Purpose 2 ADC 24bit 3.3V Automotive 20-Pin SSOP Tube

Manufacturer:	Microchip Technology, Inc
Package/Case:	SSOP20
Product Type:	Data Conversion ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The MCP3911 is a 2.7V to 3.6V dual channel AnalogFront End (AFE) containing two synchronous samplingDelta-Sigma Analog-to-Digital Converters (ADC), twoPGAs, phase delay compensation block, internalvoltage reference, modulator output block, and highspeed20 MHz SPI compatible serial interface.The MCP3911 is capable of interfacing a large varietyof voltage and current sensors including shunts,current transformers, Rogowski coils and Hall effectsensors.

Key Features

94.5dB SINAD, -106.5dBc Total harmonic distortion (THD) (up to 35th harmonic)

111dB Spurious-free dynamic range (SFDR) for each channel

Programmable data rate up to 125ksps

Ultra low-power shutdown mode with $<2\mu\text{A}$

-122dB Crosstalk between the two channels

7ppm/°C Low drift internal voltage reference

Differential voltage reference input pins

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

Phase delay compensation with 1 μs time resolution

Separate modulator outputs for each channel

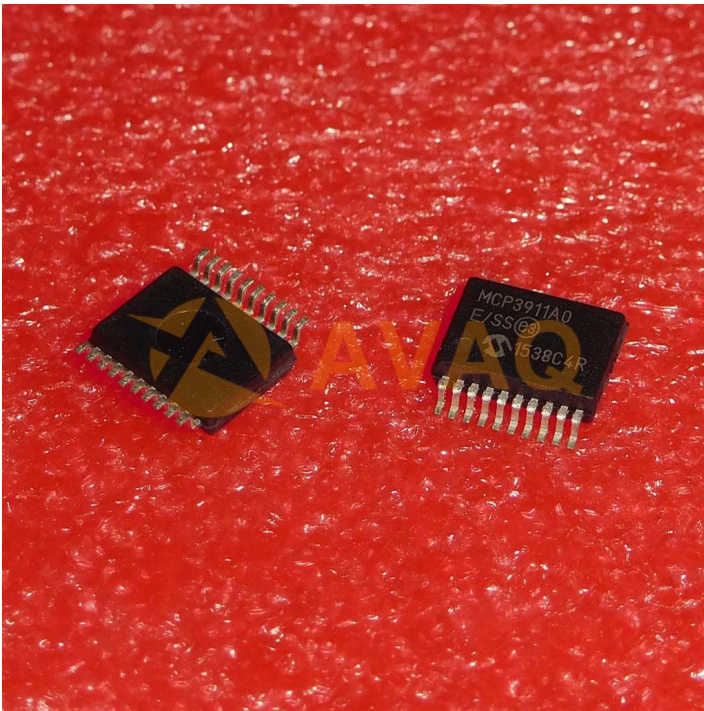
Oversampling Ratio up to 4096

Individual 24-bit Digital offset and gain error correction for each channel

High-speed 20MHz SPI Interface with mode 0,0 and 1,1 compatibility

Continuous Read/Write modes for minimum communication

Low power consumption (8.9mW at 3.3V, 5.6mW at 3.3V in low-power mode, typical)



Recommended For You

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

MCP3204-BI/P

Microchip Technology, Inc

DIP14