


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

Manufacturer:	Microchip Technology, Inc
Package/Case:	SSOP28
Product Type:	Data Conversion ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The MCP3913 device is a 3V six-channel Analog Front End (AFE, containing six synchronous sampling delta-sigma ADCs, six PGAs, phase delay compensation block, low-drift internal voltage reference, digital offset and gain error calibration registers, and high-speed 20 MHz SPI compatible serial interface. The MCP3913 ADCs are fully configurable, with features such as: 16/24-bit resolution, Oversampling Ratio (OSR) from 32 to 4096, gain from 1x to 32x, independent Shutdown and Reset, dithering and auto-zeroing. The MCP3913 AFE includes advanced security features to secure the communications and the configuration settings, such as a CRC-16 checksum on both serial data outputs and static register map configuration. It also includes a register-map lock through an 8-bit secure key to stop unwanted write commands from processing. The MCP3913 AFE is capable of interfacing with a variety of voltage and current sensors, including shunts, current transformers, Rogowski coils and Hall-effect sensors.

Key Features

AEC-Q100 Grade 1

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