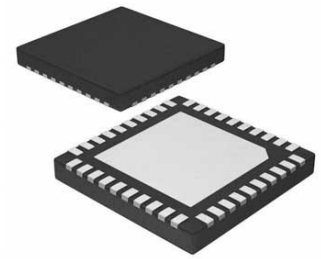


## AFE General Purpose 8 ADC 24bit 3.3V Automotive 40-Pin UQFN EP T/R



Images are for reference only

[Inquiry](#)

**Manufacturer:** [Microchip Technology, Inc](#)

**Package/Case:** QFN40

**Product Type:** Data Conversion ICs

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

### General Description

The MCP3914 is a 3V eight-channel Analog Front End(AFE, containing eight synchronous sampling delta-sigma ADCs, eight 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 MCP3914 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 MCP3914 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 MCP3914 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