

MCP3914A1-E/MV

AFE General Purpose 8 ADC 24bit 3.3V Automotive 40-Pin UQFN EP Tube

| Manufacturer: | Microchip Technology, Inc |
|---------------|----------------------------|
| Package/Case: | QFN40 |
| Product Type: | Data Conversion ICs |
| RoHS: | RoHS Compliant/Lead free W |
| 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 errorcalibration 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

Recommended For You

MCP3911A0-E/SS Microchip Technology, Inc SSOP20

MCP3208-CI/P

Microchip Technology, Inc

MCP4822-F/P Microchip Technology, Inc DIP-8

MCP3008-I/P

Microchip Technology, Inc DIP-16

MCP3001-I/SN Microchip Technology, Inc SOP8

MCP3421A0T-F/CH Microchip Technology, Inc SOT23-6 MCP3201T-CI/SN Microchip Technology, Inc SOP8

MCP3208-BI/P

Microchip Technology, Inc DIP-16

MCP3425A0T-F/CH Microchip Technology, Inc SOT23-6

MCP3427-E/UN

Microchip Technology, Inc

MSOP10

MCP3553-E/SN

Microchip Technology, Inc SOP8

MCP3550-50E/SN

Microchip Technology, Inc SOP8

MCP3422A1-E/SN

Microchip Technology, Inc SOP-8

MCP3422A0-E/SN

Microchip Technology, Inc SOP-8

MCP3208T-CI/SL

Microchip Technology, Inc SOP