


8-Channel Single ADC SAR 100ksps 12-bit Serial Automotive 16-Pin SOIC N Tube

Manufacturer:	Microchip Technology, Inc
Package/Case:	SOP16
Product Type:	Data Conversion ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The MCP3208 12-bit Analog-to-Digital Converter (ADC) combines high performance and low power consumption in a small package, making it ideal for embedded control applications. The MCP3208 features a successive approximation register (SAR) architecture and an industry-standard SPI™ serial interface, allowing 12-bit ADC capability to be added to any PICmicro® microcontroller. The MCP3208 features 100k samples/second, 8 input channels, low power consumption (5nA typical standby, 400 µA max.active), and is available in 16-pin PDIP and SOIC packages. Applications for the MCP3208 include data acquisition, instrumentation and measurement, multi-channel data loggers, industrial PCs, motor control, robotics, industrial automation, smart sensors, portable instrumentation and home medical appliances.

Key Features

Analogue inputs programmable as single ended or pseudo differential pairs

Single supply operation from 2.7V to 5.5V

Maximum sampling rate is 100KSPS at VDD=5V

Maximum sampling rate is 50KSPS at VDD=2.7V

Low power CMOS technology

Industrial temperature range from -40°C to 85°C

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

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SOP