
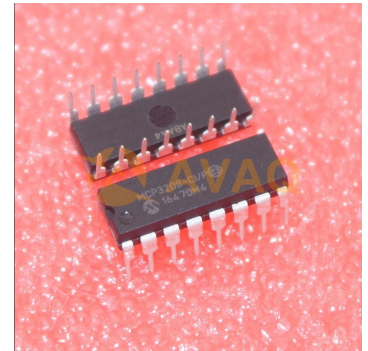


## 8-Channel Single ADC SAR 100ksps 12-bit Serial Automotive 16-Pin PDIP Tube

<b>Manufacturer:</b>	<a href="#">Microchip Technology, Inc</a>
<b>Package/Case:</b>	DIP
<b>Product Type:</b>	Data Conversion ICs
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	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

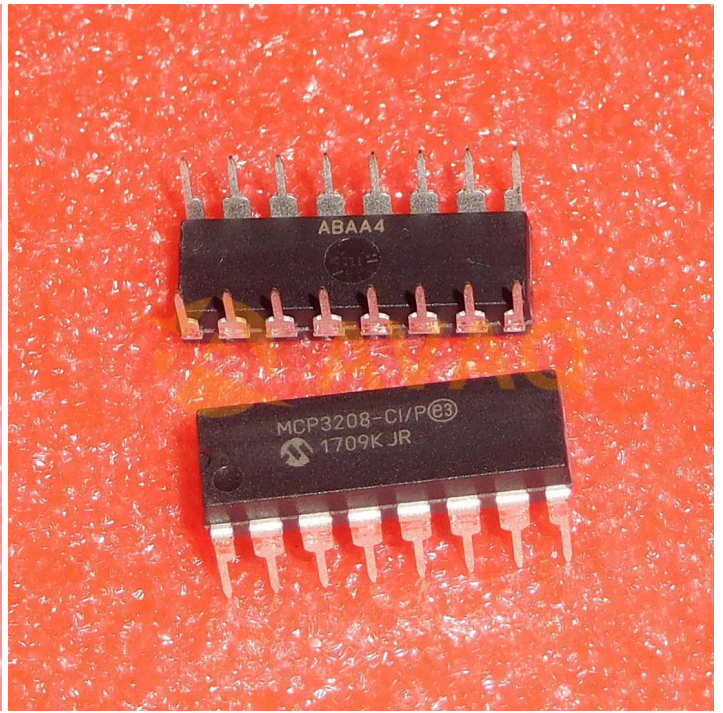
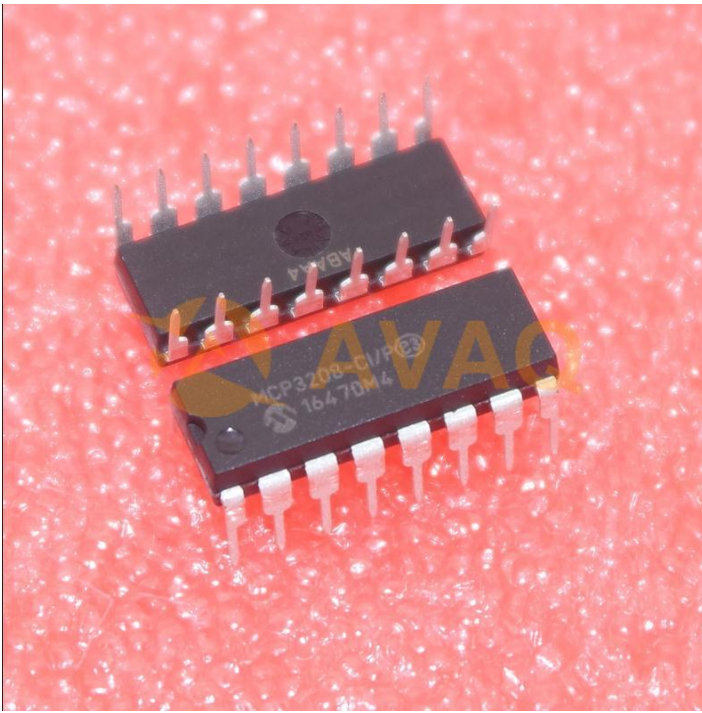
Single supply operation from 2.7V to 5.5V

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

### 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