

**Digital Potentiometer 200kOhm 256POS Volatile Linear
Automotive 24-Pin TSSOP Tube**

Manufacturer:	Analog Devices, Inc
Package/Case:	TSSOP24
Product Type:	Data Conversion ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The AD5263 is the industry's first quad-channel, 256-position, digital potentiometer¹ with a selectable digital interface. This device performs the same electronic adjustment function as mechanical potentiometers or variable resistors, with enhanced resolution, solid-state reliability, and superior low temperature coefficient performance.

Each channel of the AD5263 offers a completely programmable value of resistance between the A terminal and the wiper or between the B terminal and the wiper. The fixed A-to-B terminal resistance of 20 k Ω , 50 k Ω , or 200 k Ω has a nominal temperature coefficient of ± 30 ppm/ $^{\circ}\text{C}$ and a $\pm 1\%$ channel-to-channel matching tolerance. Another key feature of this part is the ability to operate from +4.5 V to +15 V, or at ± 5 V.

Wiper position programming presets to midscale upon power-on. Once powered, the VR wiper position is programmed by either the 3-wire SPI or 2-wire I²C-compatible interface. In the I²C mode, additional programmable logic outputs enable users to drive digital loads, logic gates, and analog switches in their systems.

The AD5263 is available in a narrow body, 24-lead TSSOP. All parts are guaranteed to operate over the automotive temperature range of -40°C to $+125^{\circ}\text{C}$. For single- or dual-channel applications, refer to the AD5260/AD5280 or AD5262/AD5282 data sheets.

Key Features

256-position, 4-channel
End-to-end resistance 20 k Ω , 50 k Ω , 200 k Ω
Pin-selectable SPI®- or I2C®-compatible interface
Power-on preset to midscale
Two package address decode pins AD0 and AD1
Rheostat mode temperature coefficient 30 ppm/°C
Voltage divider temperature coefficient 5 ppm/°C
Wide operating temperature range -40°C to +125°C
10 V to 15 V single supply; \pm 5 V dual supply

Application

Mechanical potentiometer replacement
Optical network adjustment
Instrumentation: gain, offset adjustment
Stereo channel audio level control
Automotive electronics adjustment
Programmable power supply
Programmable filters, delays, time constants
Line impedance matching
Low resolution DAC/trimmer replacement
Base station power amp biasing
Sensor calibration

1 The terms digital potentiometer, VR, and RDAC are used interchangeably.

Recommended For You

AD5262BRUZ200

Analog Devices, Inc
TSSOP16

AD8402ARUZ50

Analog Devices, Inc
TSSOP-14

AD5160BRJZ50-RL7

Analog Devices, Inc
SOT23-8

AD8400ARZ50

Analog Devices, Inc
SOP8

AD5280BRUZ20

Analog Devices, Inc
TSSOP14

AD5262BRUZ50

Analog Devices, Inc
TSSOP16

AD5204BRUZ10

Analog Devices, Inc
TSSOP24

AD5207BRUZ10

Analog Devices, Inc
TSSOP14

AD5160BRJZ10-R2

Analog Devices, Inc
SOT23-8

AD5200BRMZ10

Analog Devices, Inc
MSOP10

AD5220BNZ100

Analog Devices, Inc
8-PDIP

AD5259BRMZ100-R7

Analog Devices, Inc
MSOP10

AD5143BCPZ10-RL7

Analog Devices, Inc

16-LFCSP

AD8402ARUZI

Analog Devices, Inc

TSSOP-14

AD5260BRUZ20

Analog Devices, Inc

TSSOP14