

Non Volatile Digital Potentiometer, 10 kohm, Single, 3 Wire, Serial, Linear,  $\pm 20\%$ , 4.5 V

Manufacturers	<a href="#">Renesas Technology Corp</a>
Package/Case	DIP-8
Product Type	Digital Potentiometer ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for X9C103PIZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The X9C102, X9C103, X9C104, X9C503 are Intersil's digitally controlled (XDCP) potentiometers. The device consists of a resistor array, wiper switches, a control section, and non-volatile memory. The wiper position is controlled by a three-wire interface. The potentiometer is implemented by a resistor array composed of 99 resistive elements and a wiper switching network. Between each element and at either end are tap points accessible to the wiper terminal. The position of the wiper element is controlled by the CS, U/D, and INC inputs. The position of the wiper can be stored in non-volatile memory and then be recalled upon a subsequent power-up operation. The device can be used as a three-terminal potentiometer or as a two-terminal variable resistor in a wide variety of applications ranging from control to signal processing to parameter adjustment.

## Features

Solid-State Potentiometer

Three-Wire Serial Interface

100 Wiper Tap Points

Wiper Position Stored in Non-volatile Memory and Recalled on Power-up

99 Resistive Elements

Temperature Compensated

End-to-End Resistance,  $\pm 20\%$

Terminal Voltages,  $\pm 5\text{V}$

Low Power CMOS

>

Active Current, 3mA max.

Standby Current, 750 $\mu\text{A}$  max.

High Reliability

Endurance, 100,000 Data Changes per Bit

Register Data Retention, 100 years

>>>>

Packages

8 Ld SOIC

8 Ld PDIP

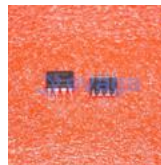
Pb-Free Available (RoHS Compliant)

## Related Products



[X9C103SIZ](#)

Renesas Technology Corp  
SOIC-8



[X9C102PIZ](#)

Renesas Technology Corp  
PDIP-8



[X9258US24IZ-2.7](#)

Renesas Technology Corp  
SOP24



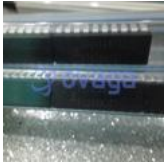
[X9251UV24IZ-2.7](#)

Renesas Technology Corp  
TSSOP-24



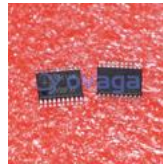
[X9250TS24IZ-2.7](#)

Renesas Technology Corp  
SOP-24



[X9241AWPIZ](#)

Renesas Technology Corp  
DIP-20



[X9241AWVZ](#)

Renesas Technology Corp  
TSSOP-20



[X9C102SZ](#)

Renesas Technology Corp  
SOIC-8