



## Digital Potentiometer 10kOhm 32POS Non-Volatile Linear 8-Pin SOIC N Tube

Manufacturer: Renesas Technology Corp

Package/Case: SOP-8

**Product Type:** Data Conversion ICs

RoHS: RoHS Compliant/Lead free

**Lifecycle:** Active



Images are for reference only

Inquiry

## **General Description**

The Intersil X9313 is a digitally controlled potentiometer (XDCP). The device consists of a resistor array, wiper switches, a control section, and nonvolatile memory. The wiper position is controlled by a 3-wire interface. The potentiometer is implemented by a resistor array composed of 31 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 nonvolatile 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 including: Control Parameter adjustments
Signal processing

## **Key Features** Solid-state potentiometer 3-wire serial interface 32 wiper tap points Wiper position stored in nonvolatile memory and recalled on power-up 31 resistive elements Temperature compensated End to end resistance range $\pm 20\%$ Terminal voltages, -VCC to +VCC Low power CMOS Active current, 3mA max. Standby current, 500µA max. High reliability Endurance, 100,000 data changes per bit Register data retention, 100 years RTOTAL Packages 8 Ld SOIC, 8 Ld MSOP and 8 Ld PDIP Pb-free available (RoHS compliant) Recommended For You **X9C103SIZT1** X9C103PZ X9313ZSZ Renesas Technology Corp Renesas Technology Corp Renesas Technology Corp SOP8 PDIP-8 SOP-8 X9314WSIZ **X9313USZT1** X9317US8IZ Renesas Technology Corp Renesas Technology Corp Renesas Technology Corp SOP-8 8-SOIC SOP-8

X9317WS8IZ-2.7

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SOIC-8

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**X9511WSIZ** 

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X95840WV20IZ-2.7

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TSSOP20

X9313USZ

X9C503SIZ

SOP24

X9258TS24IZ-2.7

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AVAQ SEMICONDUCTOR CO., LIMITED

Email: sales@avaq.com