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X9241AWVIZT1

Data Sheet

Quad Digital Controlled Potentionmeters (XDCPTM), Non-Volatile/Low Power/2-Wire/64 Taps; Temperature Range: -40°C to 85°C; Package: 20-TSSOP T&R

Manufacturers	Renesas Technology Corp
Package/Case	TSSOP-20
Product Type	Integrated Circuits (ICs)
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for X9241AWVIZT1 or Email to us: sales@ovaga.com We will contact you in 12 hours.

<u>RFQ</u>

General Description

The X9241A integrates four digitally controlled potentiometers (XDCP) on a monolithic CMOS integrated microcircuit. The digitally controlled potentiometer is implemented using 63 resistive elements in a series array. Between each element are tap points connected to the wiper terminal through switches. The position of the wiper on the array is controlled by the user through the 2-wire bus interface. Each potentiometer has associated with it a volatile Wiper Counter Register (WCR) and 4 nonvolatile Data Registers (DR0:DR3) that can be directly written to and read by the user. The contents of the WCR controls the position of the wiper on the resistor array through the switches. Power up recalls the contents of DR0 to the WCR. The XDCP 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, and signal processing.

Features

- Four potentiometers in one package
- 2-wire serial interface
- Register oriented format
- Direct read/write/transfer of wiper positions
- Store as many as four positions per potentiometer
- Terminal Voltages: +5V, -3.0V
- Cascade resistor arrays
- Low power CMOS
- High Reliability
- Endurance-100,000 data changes per bit per register
- Register data retention-100 years
- 16-bytes of nonvolatile memory
- 3 resistor array values
- $2k\Omega$, $10k\Omega$, $50k\Omega$ or combination
- Cascadable for values of $4k\Omega$ to $200k\Omega$
- Resolution: 64 taps each pot
- 20 Ld plastic DIP, 20 Ld TSSOP and 20 Ld SOIC packages
- Pb-free available (RoHS compliant)



Related Products



<u>X9258US24Z</u>

X9241AWSIZT1

20SOIC

DIP8

<u>X9C503PIZ</u>

Renesas Technology Corp SOP24

Renesas Technology Corp

Renesas Technology Corp



X9241AWSZT1

Renesas Technology Corp SOP20

<u>X9C503SZT1</u>

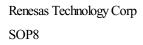
Renesas Technology Corp 8-SOIC

<u>X9C104SZT1</u>



Renesas Technology Corp SOP8

<u>Х9С102SZT1</u>





X9C102SIZT2

Renesas Technology Corp SOP8