

X9241AWSIZT1

Data Sheet

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

Manufacturers	Renesas Technology Corp	
Package/Case	20SOIC	
		Television and the
Product Type	Integrated Circuits (ICs)	2222222222
RoHS		
Lifecycle		Images are for reference only
Please submit RFQ for X9241AWSIZT1 or <u>Email to us: sales@ovaga.com</u> 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>

Renesas Technology Corp SOP24



<u>X9241AWSZT1</u>

Renesas Technology Corp SOP20



Renesas Technology Corp TSSOP-20

<u>X9241AWVIZГ1</u>

X9C503SZT1 Renesas Techn

Renesas Technology Corp 8-SOIC



<u>X9C503PIZ</u>

Renesas Technology Corp DIP8



Renesas Technology Corp SOP8

X9C104SZT1

<u>X9C102SIZT2</u>



Renesas Technology Corp SOP8



<u>X9C102SZT1</u>

Renesas Technology Corp SOP8