Quad Digital Controlled Potentionmeters (XDCP™), Non-Volatile/Low Power/2-Wire/64
Taps; Temperature Range: 0°C to 70°C; Package: 20-SOIC T&R

Manufacturers	Renesas Technology Corp
Package/Case	SOP20
Product Type	Integrated Circuits (ICs)
RoHS	
Lifecycle	

Images are for reference only

Please submit RFQ for X9241AWSZT1 or Email to us: sales@ovaga.com We will contact you in 12 hours.   RFQ

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

2kΩ, 10kΩ, 50kΩ or combination

Cascadable for values of 4kΩ to 200kΩ

Resolution: 64 taps each pot

20 Ld plastic DIP, 20 Ld TSSOP and 20 Ld SOIC packages

Pb-free available (RoHS compliant)

Related Products

X9258US24Z

Renesas Technology Corp

SOP24

X9241AWVIZT1

Renesas Technology Corp

TSSOP-20

X9241AWSIZT1

Renesas Technology Corp

20SOIC

X9C503SZT1

Renesas Technology Corp

8-SOIC

X9C503PIZ

Renesas Technology Corp

DIP8

X9C104SZT1

Renesas Technology Corp

SOP8

X9C102SIZT2

Renesas Technology Corp

SOP8

X9C102SZT1

Renesas Technology Corp

SOP8