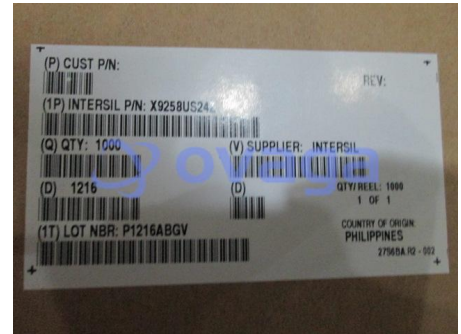


Pb-Free IIC XDCP, 100K QUAD, 256 TAPS HT SUSA CODE:8542390000

Manufacturers	<u><a href="#">Renesas Technology Corp</a></u>
Package/Case	SOP24
Product Type	Integrated Circuits (ICs)
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for X9258US24Z or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The X9258 integrates 4 digitally controlled potentiometers (XDCP™) on a monolithic CMOS integrated circuit. The digitally controlled potentiometer is implemented using 255 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 non-volatile 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

256 resistor taps/potentiometer: 0.4% resolution

2-wire serial interface

Wiper resistance, 40 $\Omega$  typical @  $V_+ = 5V$ , >

Four nonvolatile data registers for each potentiometer

Nonvolatile storage of wiper position

Standby current <5 $\mu$ A max (total package)

Power supplies

$V_+ = 2.7V$  to 5.5V

100k $\Omega$ , 50k $\Omega$  total potentiometer resistance

High reliability

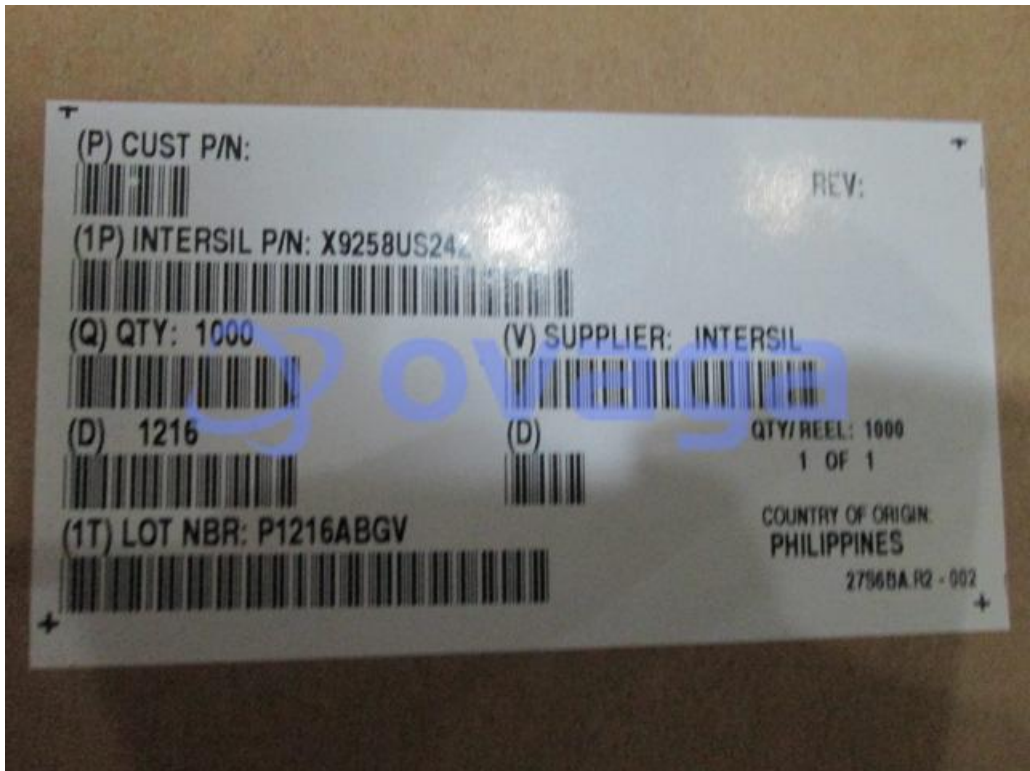
Endurance: 100,000 data changes per bit per register

Register data retention: 100 years

24 Ld SOIC, 24 Ld TSSOP

Dual supply version of X9259

Pb-free (RoHS compliant)



**Related Products**



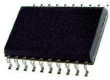
[X9241AWVIZT1](#)

Renesas Technology Corp  
TSSOP-20



[X9241AWSZT1](#)

Renesas Technology Corp  
SOP20



[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