

X9258US24IZ-2.7

Data Sheet

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

Manufacturers Renesas Technology Corp

Package/Case SOP24

Product Type Data Acquisition - Digital Potentiometers

Images are for reference only

RoHS

Lifecycle

Please submit RFQ for X9258US24IZ-2.7 or Email to us: sales@ovaga.com We will contact you in 12 hours.

RFO

General Description

The X9258 integrates 4 digitally controlled potentiometers (XDCPTM) 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 though the switches. Power-up recalls the contents of DR0 to the WCR. The XDCPTM 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, 40Ω typical @ V+ = 5V,>
Four nonvolatile data registers for each potentiometer
Nonvolatile storage of wiper position
Standby current <5 µA 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



X9C103SIZ

Renesas Technology Corp SOIC-8



<u>X9251UV24IZ-2.7</u>

Renesas Technology Corp TSSOP-24



X9241AWVZ

Renesas Technology Corp TSSOP-20



X9C102SZ

Renesas Technology Corp SOIC-8



X9C102PIZ

Renesas Technology Corp PDIP-8



X9250TS24IZ-2.7

Renesas Technology Corp SOP-24



X9241AWPIZ

Renesas Technology Corp DIP-20



X9C104SIZ

Renesas Technology Corp SOIC-8