

CPU SUP/WDT 4K SPI EE, RES LO,8LD SOIC,IND, 2.93VTRIP, PB FR HT SUSA
CODE:8542390000

Manufacturers	Renesas Technology Corp
Package/Case	SOP-8
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for X5043S8IZT1 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AX5043 is a true single chip, narrow-band, ultra-low-power ASK and FSK RF transceiver for the 27 MHz to 1050 MHz frequency bands. It offers the unique combination of ultra-low power consumption for transmit and receive operation combined with highest sensitivity and high selectivity. A link budget of 143 dB at 1 kbps is achieved, if the built-in forward error correction (FEC) is used this can be extended to 146 dB without extra external components. The AX5043 works perfectly down to 1 kbps in a 6.25 kHz channel.

An integrated voltage regulation system allows the direct use of batteries and short start-up times enable time- and energy-efficient protocols. Transmit power and receive characteristics do not change over the supply voltage range of 1.8 - 3.6 V.

The AX5043 supports FSK, MSK, 4-FSK, GFSK, GMSK, AFSK and ASK modulations. In transmit mode, all modulations are shaped. For FSK gaussian filters with>

Features

Low V

CC

Four standard reset threshold voltages 4.63V, 4.38V, 2.93V, 2.63V

Re-program low V

CC

Reset signal valid to >

Selectable Time Out Watchdog Timer

Long Battery Life with Low Power Consumption

4Kbits of EEPROM-1M Write Cycle Endurance

Save Critical Data with Block Lock™ Memory

Protect 1/4, 1/2, all or none of EEPROM array

Built-in Inadvertent Write Protection

Write enable latch

Write protect pin

SPI Interface - 3.3MHz Clock Rate

Minimize Programming Time

16-byte page write mode

5ms write cycle time (typical)

Available Packages

8 Ld MSOP, 8 Ld SOIC, 8 Ld PDIP

14 Ld TSSOP

Pb-Free Plus Anneal Available (RoHS Compliant)

Application

IOT (Internet of Things)

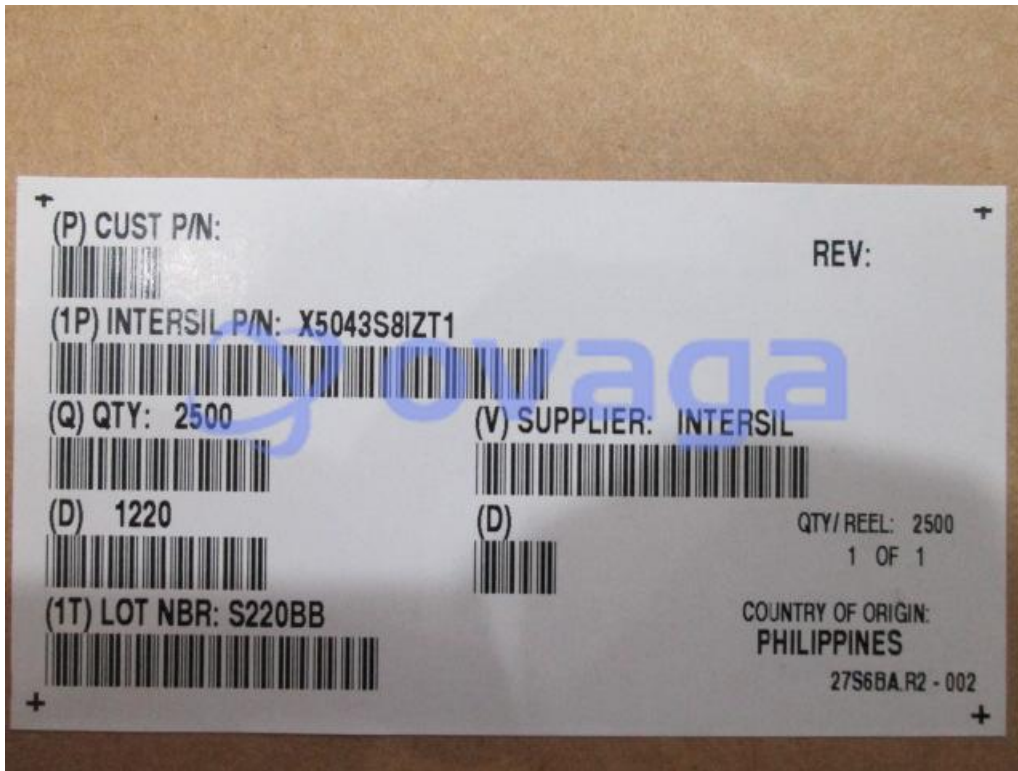
Automated Meter Reading (AMR)

Security Applications

Building Automation

Wireless Networks

Battery Powered Portable Applications



Related Products



[X5323S8IZT1](#)

Renesas Technology Corp
SOP8



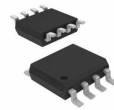
[X5323S8Z-2.7](#)

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[X5325S8ZT1](#)

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[X5325S8Z-4.5A](#)

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SOIC-8



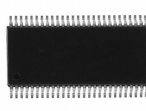
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8-SOIC



[X5325S8Z-2.7A](#)

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Renesas Technology Corp
8-SOIC (0.154, 3.90mm Width)