

NFC/RFID Tag and Transponder IC 13553kHz to 13567kHz 2Kbit 8-Pin UDFPN EP T/R



Images are for reference only

Manufacturer: [STMicroelectronics, Inc](#)

Package/Case: UDFPN-8

Product Type: RF Integrated Circuits

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

[Inquiry](#)

General Description

M24SR02-Y belongs to the ST25 family, which includes all STMicroelectronics NFC/RFID tag and reader products.

The M24SR02-Y device is a dynamic NFC/RFID tag IC with a dual interface embedding an EEPROM. It can be operated from an I2C interface or by a 13.56 MHz RFID reader or from an NFC phone. The I2C interface uses a two-wire serial interface, consisting of a bidirectional data line and a clock line. It behaves as a slave in the I2C protocol. The RF protocol is compatible with ISO/IEC 14443 Type A and NFC Forum Type 4 Tag.

Key Features

I2C interface

Two-wire I2C serial interface supports 1MHz protocol

Single supply voltage: 2.7V to 5.5V

Contactless interface

NFC Forum Type 4 Tag

ISO/IEC 14443 Type A

106Kbps data rate

Internal tuning capacitance: 25pF

Memory

256-byte (2-kbit) EEPROM

Support of NDEF data structure

Data retention: 200 years

Write endurance:

1 million cycles at 25°C

600k cycles at 85°C

Read: up to 246 bytes in a single command

Write: up to 246 bytes in a single command

7-byte unique identifier (UID)

128-bit password protection

Package

8-lead small-outline package (SO8) ECOPACK2

TSSOP8 ECOPACK2

UFDFPN8 ECOPACK2

Digital pad

GPO: configurable general purpose output

RF disable: activation/deactivation of RF commands

Temperature range

From -40°C to 85°C

Recommended For You

M24LR04E-RDW6T/2

STMicroelectronics, Inc
TSSOP8

M24LR04E-RMC6T/2

STMicroelectronics, Inc
8-UFDFN

M24SR16-YDW6T/2

STMicroelectronics, Inc
TSSOP-8

M24LR64E-RMN6T/2

STMicroelectronics, Inc
SOP8

M24SR02-YDW6T/2

STMicroelectronics, Inc
TSSOP8

M24SR64-YDW6T/2

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TSSOP-8

M24LR64E-RDW6T/2

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TSSOP8

M24SR64-YMN6T/2

STMicroelectronics, Inc
SO-8

M24SR04-YDW6T/2

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TSSOP8

M24LR16E-RMC6T/2

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M24LR64E-RMC6T/2

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MLP-8

M24LR04E-RMN6T/2

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SOP8

M24LR16E-RMN6T/2

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SOP8

M24SR04-YMC6T/2

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M24SR04-GMC5T/2

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