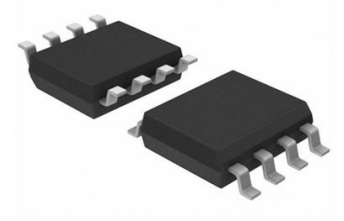


## NFC/RFID Tag and Transponder IC 13553kHz to 13567kHz 64Kbit 8-Pin SO N T/R



Images are for reference only

**Manufacturer:** [STMicroelectronics, Inc](#)

**Package/Case:** SO-8

**Product Type:** RF Integrated Circuits

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

[Inquiry](#)

### General Description

M24SR64-Y belongs to the ST25 family which includes all STMicroelectronics NFC/RFID tag and reader products.

The M24SR64-Y device is a dynamic NFC/RFID tag IC with a dual interface. It embeds an EEPROM memory. It can be operated from an I2C interface or by a 13.56 MHz RFID reader or 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

8-Kbyte (64-kbit) EEPROM

Support of NDEF data structure

Data retention: 200 years

Write cycle endurance:

1 million Write cycles at 25°C

600k Write cycles at 85°C

500k Write cycles at 105°C

Read up to 246 bytes in a single command

Write up to 246 bytes in a single command

7 bytes unique identifier (UID)

128 bits 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 105°C for I2C operation

From -40°C to 85°C for RF operation

## 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**

STMicroelectronics, Inc  
TSSOP-8

**M24LR64E-RDW6T/2**

STMicroelectronics, Inc  
TSSOP8

**M24SR02-YMC6T/2**

STMicroelectronics, Inc  
UFDFPN-8

**M24SR04-YDW6T/2**

STMicroelectronics, Inc  
TSSOP8

**M24LR16E-RMC6T/2**

STMicroelectronics, Inc  
UFDFPN-8

**M24LR64E-RMC6T/2**

STMicroelectronics, Inc  
MLP-8

**M24LR04E-RMN6T/2**

STMicroelectronics, Inc  
SOP8

**M24LR16E-RMN6T/2**

STMicroelectronics, Inc  
SOP8

**M24SR04-YMC6T/2**

STMicroelectronics, Inc  
UFDFPN-8

**M24SR04-GMC5T/2**

STMicroelectronics, Inc  
UFDFPN-8