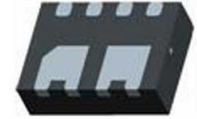


NFC/RFID Tag and Transponder IC 13553kHz to 13567kHz 64Kbit 8-Pin UDFPN EP T/R



Images are for reference only

Manufacturer: [STMicroelectronics, Inc](#)

Package/Case: MLP-8

Product Type: RF Integrated Circuits

RoHS: RoHS Compliant/Lead free 

Lifecycle: NRND

[Inquiry](#)

General Description

The M24LR64E-R device is a Dynamic NFC/RFID tag IC with a dual-interface, electrically erasable programmable memory (EEPROM). It features an I2C interface and can be operated from a VCC power supply. It is also a contactless memory powered by the received carrier electromagnetic wave. The M24LR64E-R is organized as 8192 × 8 bits in the I2C mode and as 2048 × 32 bits in the ISO 15693 and ISO 18000-3 mode 1 RF mode.

The M24LR64E-R also features an energy harvesting analog output, as well as a user-configurable digital output pin toggling during either RF write in progress or RF busy mode.

Key Features

Belonging to ST25 family, which includes all NFC/RFID tag and reader products from ST

I2C interface

Two-wires I2C serial interface supports 400kHz protocol

Single supply voltage:

1.8V to 5.5V

Byte and Page Write (upto 4 bytes)

Random and Sequential read modes

Self-timed programming cycle

Automatic address incrementing

Enhanced ESD/latch-up protection

I2C timeout

Contactless interface

ISO 15693 and ISO 18000-3 mode 1 compatible

13.56MHz ± 7kHz carrier frequency

Tag: 10% or 100% ASK modulation using 1/4 (26Kbit/s) or 1/256 (1.6Kbit/s) pulse position coding

From tag: load modulation using Manchester coding with 423kHz and 484kHz subcarriers in low (6.6kbit/s) or high (26kbit/s) data rate mode. Supports the 53kbit/s data rate with Fast commands

Internal tuning capacitance: 27.5pF

64-bit unique identifier (UID)

Read Block & Write (32-bit blocks)

Digitaloutputpin

Userconfigurablepin:RFwriteinprogressorRFbusymode

Energyharvesting

Analogpinforenergyharvesting

Foursinkcurrentconfigurableranges

Temperaturerange

From-40to85°C

Memory

64-KbitEEPROMorganizedinto:

8192bytesinI2Cmode

2048blocksof32bitsinRFmode

Writetime

I2C:5ms(max.)

RF:5.75msincludingtheinternalVerifytime

Writecyclingendurance:

1millionwritecyclesat25°C

150kwritecyclesat85°C

Morethan40-yeardataretention

MultiplepasswordprotectioninRFmode

SinglepasswordprotectioninI2Cmode

Package

SO8(ECOPACK2)

TSSOP8(ECOPACK2)

UFDFPN8(ECOPACK2)

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

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TSSOP8

M24SR64-YMN6T/2

STMicroelectronics, Inc
SO-8

M24SR02-YMC6T/2

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UFDFPN-8

M24SR04-YDW6T/2

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SOP8

M24SR04-YMC6T/2

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M24SR04-GMC5T/2

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