

Product Overview

N24RF04: Dual Interface RFID 4 Kb EEPROM Tag ISO 15693 RF and I²C Bus Compliant

For complete documentation, see the data sheet.

The N24RF04 is a RFID/NFC tag with a 4 Kb EEPROM device, offering both contactless and contact interface. In addition to the ISO/IEC 15693 radio frequency identification (RFID) interface protocol, the device features an I2C interface to communicate with a microcontroller. The I2C contact interface requires an external power supply. The 4 Kb EEPROM array is internally organized as 128 x 32 bits in RF mode and as 512 x 8 bits when accessed from the I2C interface.

Features

- Contactless Transmission of Data
 - ISO 15693 / ISO 18000-3 Mode1 Compliant
 - Vicinity Range Communication (up to 150 cm)
 - Air Interface Communication at 13.56 MHz (HF)
 - To tag: ASK Modulation with 1.65 Kbit/s or 26.48 Kbit/s Data Rate
 - From Tag: Load Modulation Using Manchester Coding with 423 kHz and 484 kHz Subcarriers in Low (6.6 Kbit/s) or high (26 Kbit/s) Data Rate Mode. Supports the 53 Kbit/s Data Rate with Fast Commands
 - Read & Write 32-bit Block Mode
 - Anti-collision Support
 - 64-bit Unique Identifier (UID)
 - Multiple 32-bit Passwords and Lock Feature for Each User Memory Sector
- For more features, see the data sheet

Applications

- NFC Tag
- RF Tag
- EEPROM

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Type	Density	Organization	Data Transmission Standard	f _{cycle} Max (kHz)	t _{ACC} Max ns	V _{CC} Min (V)	V _{CC} Max (V)	I _{standby} Max (μA)	I _{act} Max (mA)	T Min (°C)	T Max (°C)	Package Type
N24RF04DTPT3G	1.1333	Pb-free Halide free	Active	Serial	4 kb	512 x 8	I2C	1000	400	1.8	5.5	$\frac{10}{100}$	0.4	-40	105	TSSOP-8
N24RF04DWPT3G	1	Pb-free Halide free	Active	Serial	4 kb	512 x 8	I2C	1000	400	1.8	5.5	$\frac{100}{10}$	0.4	-40	105	SOIC-8

For more information please contact your local sales support at www.onsemi.com.

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