N24RF04

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

Product Overview

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 180003 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 32bit Block Mode
- Anticollision Support
- 64bit Unique Identifier (UID)
- Multiple 32bit 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	Status	Compilance	Type	Density	Organization	Data Transmission Standard	f_{cycle} Max (kHz)	t_{ACC} Max ns	V_{CC} Min (V)	V_{CC} Max (V)	V_{io} Ref (V)	$I_{standby}$ Max (µA)	I_{act} Max (mA)	TMin (°C)	TMax (°C)	Endurance (Write cycles)	Specific Features	Package Type	Case Outline	MSL Type	MSL Temp (°C)	Container Type	Container Qty.
N24RF04DTPT3G	Last Shipments	H Pb	CMOS	4 kb	512 x 8	I2C	1000	400	1.8	5.5	V_{CC}	100	0.4	-40	105	-	-	TSSOP-8	948AL.PDF	1	260	REEL	3000
N24RF04DWPT3G	Last Shipments	H Pb	CMOS	4 kb	512 x 8	I2C	1000	400	1.8	5.5	V_{CC}	100	0.4	-40	105	-	-	SOIC-8	751BD.PDF	1	260	REEL	3000