

N24RF64

Dual Interface RFID 64 Kb EEPROM Tag ISO 15693 RF and I2C Bus Compliant

Product Overview

For complete documentation, see the data sheet.

The N24RF64 is a RFID/NFC tag with a 64 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 64 Kb EEPROM array is internally organized as 2048 x 32 bits in RF mode and as 8192 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
N24RF64DTPT3G	1.035		Active	Serial	64 kb	8k x 8	I2C	1000	400	1.8	5.5		0.4	-40	105	TSSOP-8
N24RF64DWPT3G	0.9775		Active	Serial	64 kb	8k x 8	I2C	1000	400	1.8	5.5		0.4	-40	105	SOIC-8