

NCF29A1MHN: Tiny Single Chip Passive Keyless Entry/Go Solution

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Overview

The NCF29A1 is an extremely compact single chip solution, ideally suited for automotive applications with combined vehicle immobilization and keyless entry/start functions. The device incorporates a Security Transponder, PKE LF interface, UHF Transmitter and RISC Controller on the same chip and requires only a few external components.

The device transponder operation is compatible with the Security Transponder family PCF7937/38/39. The Transponder circuitry does not require any battery supply and full operation is granted in case of a battery low condition. The device comes in a tiny 32 pin QFN Package demanding little board space (5 mm x 5 mm). The RISC Controller is powered by NXP's low power 16-Bit MICRO RISC KERNEL (MRK III). The device features 8 I/O ports allowing for up to eight command button inputs.

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Features

- Single-chip Security Transponder and Keyless Entry solution with on-chip multi-channel UHF Transmitter (310-447 MHz, 868/915 MHz upon request)
- PCF7938/39 Family compatible transponder operation
- 16 Bit RISC Architecture (MRK III)
- Up to eighth command buttons
- Low-power RISC programmable device operation
- Programmable ASK/FSK modulation characteristics
- EEPROM for extended data storage
- High sensitive three axis (3D) LF front-end
- Low power LF wake-up and data processing

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Outline 3d SOT617-3



Complementary products for your application



NJJ29C0BHN: Low
Frequency Driver &
Receiver IC for
Passive Keyless Entry
Applications

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