Product Overview

NCN6004A: Dual SAM Card / SIM Card Interface IC / Power Supply Circuit

For complete documentation, see the data sheet.

The NCN6004A is an interface IC dedicated for Secured Access Module reader/writer applications. It allows the management of two external ISO/EMV cards thanks to a simple and flexible micro controller interface. Several NCN6004A interfaces can share a single data bus, assuming the external MPU provides the right Chip Select signals to identify each IC connected on the bus. A built in accurate protection system guarantees timely and controlled shutdown in the case of external error conditions. On top of that, the NCN6004A can independently handle the power supply, in the range 2.7V to 5.0 volt input voltage, provided to each external Smart Card. The interface monitors the current flowing into each Smart Card, a flag being set in the case of overload.

Features

- Separated Built in DC/DC converters supply VCC power to external cards
- 100% compatible with ISO 7816-3, EMV and GIE-CB standards
- Fully GSM Compliant
- Individually Programmable ISO/EMV Clock Generator
- Built-in programmable CRD_CLK stop function handles Run or High/Low state.
- Programmable CRD_CLK slopes to cope with wide operating frequency range
- Programmable independent VCC supply for each Smart Card
- Support up to 65 mA VCC supply to each ISO/EMV card
- Multiple NCN6004A parallel operation on a shared bus.
- 8 kV/Human Model ESD protection on each interface pins

For more features, see the data sheet

Applications

- Set Top Box decoder
- ATM multi systems, POS, Handheld Terminals
- Internet e-commerce PC interface
- Multiple Self Serve automatic machines
- Wireless phone payment interface

End Products

- Set Top Boxes
- Mobile Phones
Application Diagram

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

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