



Product Overview

NCN4557: SIM/SAM/Smart Card Power Supply and Level Shifter, Dual

For complete documentation, see the data sheet

Product Description

The NCN4557 is a dual interface analog circuit designed to translate the voltages between SIM Cards, SAM Cards or Smart Cards and a microcontroller (or similar control device). It integrates two LDOs for power conversion and three level shifters per channel allowing the management of two independent chip cards. The device fulfills the ISO-7816 and EMV smart card interface requirements as well as the GSM and 3G mobile standard. Due to a built-in sequencer, the device enables automatic activation and deactivation. Through the ENABLE pin a low current shutdown mode can be activated extending the battery life.

The card power supply voltage (1.8 V or 3.0 V) and the card socket A or B are selected using two dedicated pins (SEL0 & SEL1).

Features

- Supports 1.8 V or 3.0 V Operating SIM/SAM/Smart Cards
- The LDOs are able to Supply more than 50 mA Under 1.8 V and 3.0 V
- ESD Protection on Card Pins in Excess of 8.0 kV
- Built-in Sequencer for Activation and Deactivation
- Very Compact LowProfile 3x3 QFN16 Package

Benefits

- Support Main Types of SIM cards
- High load drive capabilities compatible with 3G standard
- Enhanced system safety
- Power-up and Power-down internally managed
- Save space

Applications

- Dual SIM Card Interface Circuit for 2G, 2.5G and 3G Mobile Phone Application
- Wireless PC/Laptop Cards (PCMCIA Cards)
- Smart Card Readers

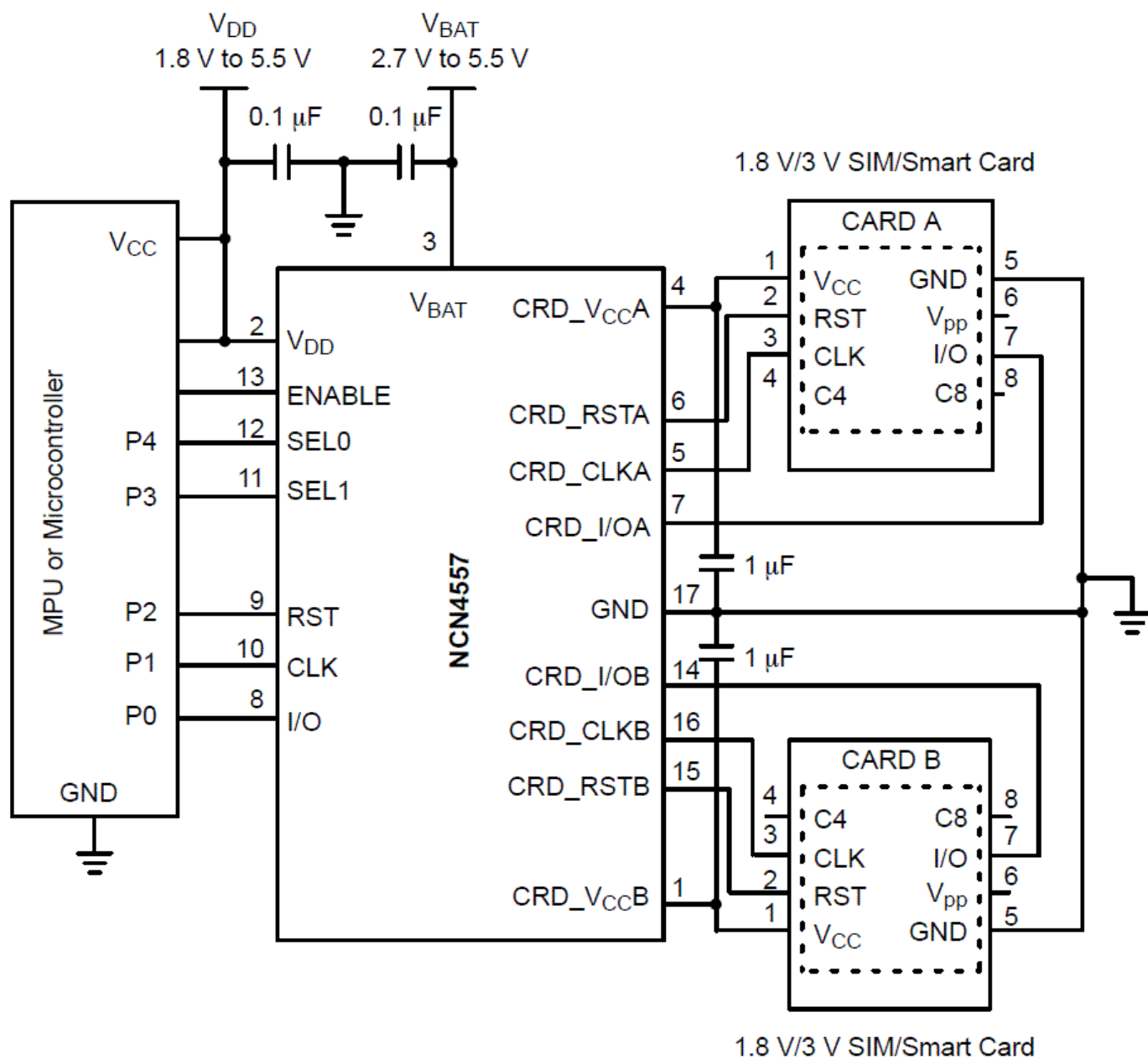
End Products

- POS Terminals (SAM Card Interfaces)
- Portable Multimedia Players (PMP)
- Set Top Box (STB)

Part Electrical Specifications

Product	Compliance	Status	V _{CC} Min (V)	V _{CC} Max (V)	I _T Typ (mA)	I _{I(standby)} Max (μA)	f _{Clock} Max (MHz)	Package Type
NCN4557MTR2G	Pb-free Halide free	Active	1.8	5.5	0.03	3	5	QFN-16

Application Diagram



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

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