

Product Overview

NCN6804: Smart Card Interface, Dual

For complete documentation, see the data sheet

Product Description

The NCN6804 is a dual interface IC with serial control. It is dedicated for Smart Card/Secure Access Module (SAM) reader/writer applications. It allows the management of two external ISO/EMV cards (Class A, B or C). An SPI bus is used to control and configure the dual interface. The cards are controlled in a multiplexed mode. Two NCN6804 devices (four smart card interfaces) can share one single control bus thanks to a dedicated hardware address pin (S1). An accurate protection system guarantees timely and controlled shutdown in the case of external error conditions. This device is an enhanced version of the NCN6004A, more compact, more flexible and fully compatible with the NCN6001, its single interface counterpart version. It is fully compatible with ISO 7816-3, EMV and GIE-CB standards.

Features

- Dual Smart Card / SAM Interface with SPI Programming Bus
- Fully Compatible with ISO 7816-3, EMV and GIE-CB Standards
- One Protected Bidirectional Buffered I/O Line per Card Port
- Wide Power Supply Voltage Range: 2.7 V VDDPA/B & VDD 5.5 V
- Programmable/Independent CRD_VCC Supply for Each Smart Card
- Multiplexed Mode of Operating
- Handles 1.8 V, 3.0 V and 5.0 V Smart Cards
- Programmable Rise & Fall Card Clock Slopes (Slow & Fast Modes)
- Support up to 40 MHz Clock with Internal Programmable Clock (division ratio 1/1, 1/2, 1/4) Managed Independently for Each Card
- Built-in Programmable CRD_CLK Stop Function handles Low State

Applications

- Transaction Terminals
- Banking Terminal Interfaces
- Set Top Box Decoder

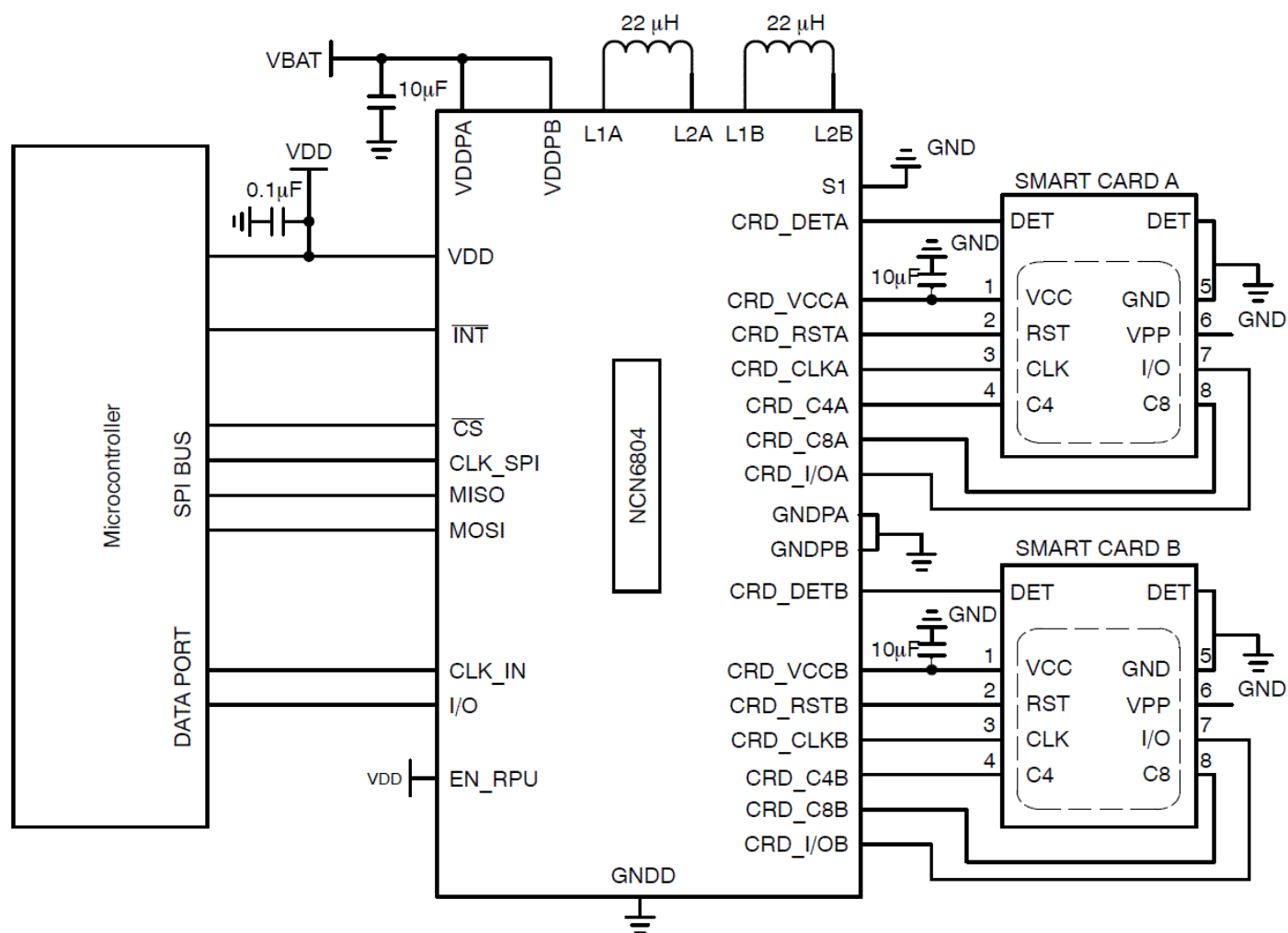
End Products

- Pay TV / Set Top Box
- POS / ATM

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
NCN6804MNR2G	Pb-free	Active	2.7	5.5	0.1	100	40	QFN-32
	Halide free							

Application Diagram



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

Created on: 7/10/2015