WANT EASIER CONTROL AND A COST-SAVING SOLUTION FOR YOUR SMARTCARDS?

GET ST8004 ANALOG INTERFACE CHIP

The ST8004 is a complete low-cost analog interface chip for asynchronous 3V and 5V smartcards, designed for use in set-top boxes and IC card readers for banking and identification.

The ST8004 meets the ISO 7816-3 standard and is compatible with the NDS conditional access system. It performs all supply protection and control functions when placed between a smartcard and a microcontroller. The interface includes a supply supervisor to control transients, enhanced ESD protection on the card side and both thermal and short-circuit protection on all card contacts.

The part has three specific protected half-duplex bidirectional buffered I/O lines. It includes automatic activation and deactivation sequences. It also includes a 26MHz crystal oscillator to allow the interface to generate clocks for the card of up to 20MHz, with synchronous frequency changes.

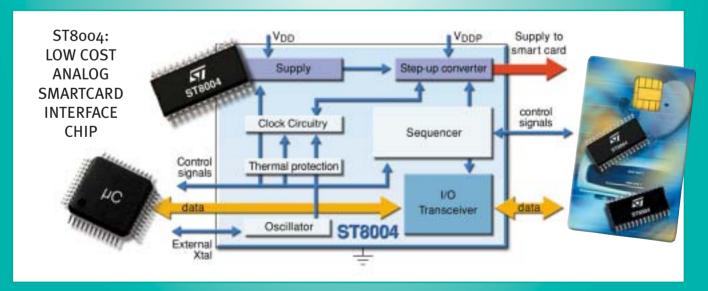
The ST8004 runs off a 3 or 5V supply and has a stepup converter for V_{CC} generation. The part also offers under-voltage lockout protection, at 3 or 2.2V.

MAIN FEATURES

- Designed to be compatible with the NDS conditional access system
- 3 or 5V supply for the IC
- Step-up converter for V_{CC} generation
- 3 specific protected half duplex bi-directional buffered I/O lines
- Automatic activation and deactivation sequences
- Thermal and short-circuit protection on all card contacts
- 26MHz integrated crystal oscillator
- ISO7816-3 compatible
- Enhanced ESD protection on card side
- SO-28 and TSSOP28 packages

APPLICATIONS

- Smartcard readers for set-top boxes
- · IC card readers for banking
- Identification



Want more information on ST8004? Go to www.st.com/interface

