

AT83C220K/AT83C230K with OMNIKEY Firmware

PRE-CERTIFIED SMART CARD READER SOLUTIONS FOR **USB LINK**

AT83C220K and AT83C230K are based on Atmel C51 MCUs and include OMNIKEY® firmware. These single-chip turnkey solutions can be quickly and easily integrated into any USB smart card keyboard or peripheral.



Key Features & Benefits

- Single-Chip Solution
- Quick Time-to-Market
- Fast & Easy EMVCo Certification
- Supports all Smart Cards
- USB 2.0 Full-speed: 12 Mbits/sec
- CCID Compliant Interface

Compliance with:



Applications

- Smart Card Reader Keyboard
- Dongle
- Smart Card Reader



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AT83C220K and AT83C230K are two highly integrated solutions, including OMNIKEY firmware and associated drivers, for any smart card reader using a USB link.

The USB Smart Card Reader Solutions allow customers to reduce time-to-market as they are compliant with ISO 7816, USB CCID standards, and EMV 2000 and WHQL certified.

They combine Atmel and OMNIKEY's expertise in smart card reader development and in-system integration.

To implement these turnkey solutions, customers only have to include the appropriate drivers in their host software (PC/SC, Microsoft® CCID, Linux®).



Product Features

- **Host Interface**
 - USB 2.0 Full-speed: 12 Mbits/sec
 - PC/SC Compliant
- **Supported Smart Cards**
 - Asynchronous & Synchronous
- **Smart Card Power Supply**
 - 1.8V (20 mA), 3 or 5V (60 mA)
 - Short Circuit Current Limitation
 - Power Up/Power Down Management
- **Smart Card Management**
 - Presence and Insertion/Extraction Detection
- **4 kV ESD Protection on Card Pins**
- **Up to 5 LEDs Management**
- **AT83C220K/230K Power Supply**
 - 3.6 to 5.5 Volts
 - 100 µA Standby Mode (USB-compatible)
- **Temperature Range**
 - -40 to +85°C

AT83C220K/230K Reference Design (AT89RFD-02)



Technical Package Available on CD-ROM

- Specifications
- Schematics & Bill of Material
- Software Drivers
- Test Utilities



AT83C220K/230K Reference Design

Contact Information

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Ordering Information

Part Numbers	Description
Development Tools	
AT89RFD-02	AT83C220K/230K Reference Design with Samples
Devices	
AT83C220K100-RDTIL	VQFP64 in Tray
AT83C220K100-RDRIL	VQFP64 in Reel
AT83C230K100-SISIL	PLCC28 in Stick
AT83C230K100-SIRIL	PLCC28 in Reel
AT83C230K100-RATIL	VQFP32 in Tray
AT83C230K100-RARIL	VQFP32 in Reel



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