

SDiD™ 1010 NFC / RFID SD Card

Product Data Sheet

The SDiD™ 1010 is a Near Field Communication (NFC) / Radio Frequency Identification (RFID) Secure Digital (SD) Card, designed to plug into any Personal Digital Assistant (PDA), Smartphone or other hand-held device with an SD slot. The SDiD™ card offers NFC two-way communications and RFID read / write capabilities for portable terminals. Applications include contactless payments and accessing product, entertainment and customer loyalty information. The SDiD™ card can be used for vertical applications such as asset and document tracking and reading and writing RFID tags for industries such as health-care, pharmaceutical, retail logistics and homeland security. Transaction or tag information can be processed through mobile connections such as WiFi, Bluetooth, CDMA, GSM / GPRS or UMTS associated with the portable device.



Features

Near Field Communication (NFC)

- NFCIP-1, ISO 18092 compliant
- Supports contactless payment
- Peer to peer communication
- Data exchange speed up to 424 kbit/s

Radio Frequency Identification (RFID)

- ISO 14443A compliant
- Supports NXP MIFARE®
- Supports NXP MIFARE DESFire®
- Read, write and search RFID tags

SmartCard

- Integrated SAM (Secure Access Module)
- SmartCard compliant JCOP OS
- MIFARE® tag emulation

Secure Digital (SD) Card

- SDIO compliant, version 1.10
- SD-1, SD-4, SPI mode
- Extended SD form factor

Integrated Antenna

- Compact and reliable design

Frequency

- 13.56 MHz HF Band

Supports most PDAs and Smartphones

- Terminals with SDIO enabled SD Card slots
- Microsoft Pocket PC 2002/2003 with SDIONow! or Windows Mobile 2003 with SDIONow! or Windows Mobile 5.0 or Windows Mobile 6.0
- Supports Palm OS® 4.1 and up

Read/Write Range

- Up to 5.0 cm (2.0") depending on tag antenna configuration and environment

Low Power Consumption (depending on host device)

- 100 mA (typical) active
- 30 mA (typical) idle
- 10 mA (typical) standby
- 3.3V (typical) operation

LED Indicator

- Indication for standby search and data communications