

## SDiD™ 1212 LF RFID SD Card with 512MB SD Memory

### Product Data Sheet

SDiD™ 1212 is a Low Frequency (LF) Radio Frequency Identification (RFID) Secure Digital (SD) Card with embedded 512MB SD memory, designed to plug into any Personal Digital Assistant (PDA), Smartphone or other hand-held device with an SD slot. The SDiD™ card offers RFID read / write capabilities for portable terminals using industry standard LF technologies. Applications include animal identification, herd management, asset tagging, oilfield logistics and process compliance, vehicle security and fuel payment systems. Transaction or tag data can be processed through mobile wireless connections associated with the portable device or utilized with local application and data store in the embedded 512MB SD memory. Combination of the SDiD™ 1212 with a network connected handheld device provides a high performance, economical system for mobile LF RFID.



#### Features

##### Radio Frequency Identification (RFID)

- Low Frequency or LF RFID
- ISO 11784, ISO 11785 for Animal ID
- Supports both Half Duplex (HDX) and Full Duplex (FDX) LF RFID
- Supports TI TIRIS LF, Sokymat Q5, NXP HITAG™ 1 and NXP HITAG™ S (no security)
- Read, write and search 125 kHz and 134.2 kHz LF RFID tags

##### Secure Digital (SD) Card

- SD Combo Card compliant
- Embedded 512MB standard microSD
- SDIO compliant, version 1.10
- SD-1, SD-4, SPI mode
- Extended SD form factor

##### Integrated Antenna

- Compact and reliable design

##### Frequency

- 134.2 kHz LF Band

##### Read Range

- HDX: Up to 12.5 cm (5.0") depending on tag antenna configuration and environment
- FDX: Up to 9.0 cm (3.5") depending on tag antenna configuration and environment

##### Supports most PDAs and Smartphones

- Terminals with SDIO enabled SD Card slots that also support Combo Cards
- Microsoft Pocket PC 2002/2003 with SDIONow! or Windows Mobile 2003 with SDIONow! or Windows Mobile 5.0 or Windows Mobile 6.0

##### Low Power Consumption (depending on host device)

- 300 mA (typical) FDX active
- 120 mA (typical) HDX active
- 40 mA (typical) idle
- 32 mA (typical) standby
- 3.3V (typical) operation

##### LED Indicator

- Bi-color (Red/Green)
- Host Application controls activity