



SDiD™ 1212 LF RFID SD Card with 2GB SD Memory

Product Data Sheet

The SDiD™ 1212 is a Low Frequency (LF) Radio Frequency Identification (RFID) Secure Digital (SD) Card with embedded 2GB 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 information can be processed through mobile wireless connections associated with the portable device or utilized with local application and data store in the embedded 2GB 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 2GB standard microSD
- SDIO complaint, 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