

CARDTOOL™ MAGNETIC CARD READER

Features

- Versatile 3-Track Card Reader
- 1 or 2 Mbytes of Flash Memory
- Springboard Compatible
- Low Power Design
- Low Profile Case
- No external batteries required
- No Serial or IR port required
- Compatible with Palm OS® Development tools
- Durable and reliable
- Optional custom magnetic Decoding Algorithms and Security Management features

Applications

- University ID Cards
- Driver's License
- Corporate Badges
- Trade Shows
- Event Ticketing
- Patient Management
- Membership Cards
- Customer Loyalty Applications
- Limited only by your imagination...

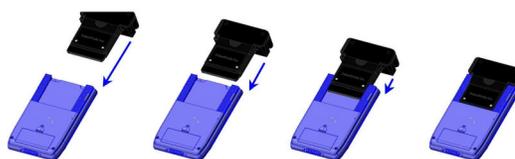


CardTool Reader Module—shown alone and installed

THE PERFECT TOOL FOR MAGNETIC CARDS

The CardTool magnetic card reader is a Springboard expansion module that contains a 3 track magnetic card reader and 1 or 2 MBytes internal flash memory. The 3 track reader can read all standard encoded magnetic cards and can be field updated to read proprietary encoded cards. The flash memory provides a convenient way to distribute card applications and back-up important data such as card transaction databases.

The plug-n-play architecture of the Visor handheld facilitates the automatic installation of applications. Application icons automatically install when the CardTool reader module is inserted. Eliminates timely application downloads and makes software distribution a snap! Simply insert the CardTool reader module and start reading cards!



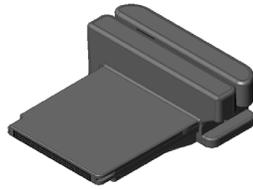
The Springboard expansion slot provides the data communication paths and power. No external batteries are required plus the USB and IR ports remain available. No need to remove the CardTool reader to download transaction data!

The CardTool reader module ships with a sample card application (CardDemo) installed. It provides a convenient demonstration application and the C source code is included in the System Development Kit. If you've been looking for a low cost, handheld magnetic card transaction processing platform, look no further. Start developing your application today!



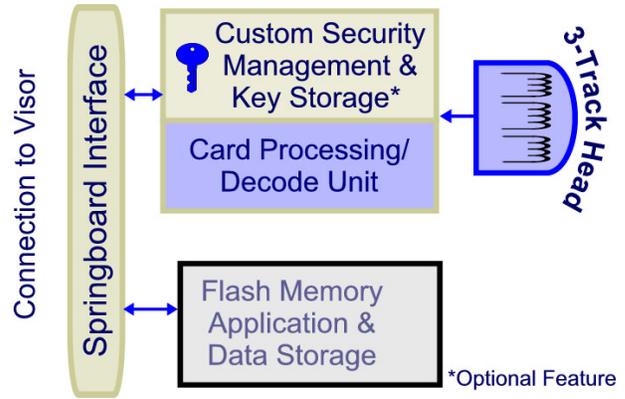
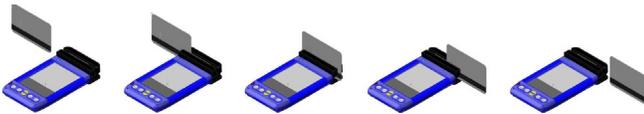
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CardTool Reader Pays for Itself

The CardTool will actually pay for itself by saving the time and hassle of loading card applications. Unlike 'clip-on' serial port readers, the CardTool reader module takes advantage of the Springboard expansion slot's plug and play architecture. The built in flash memory allows CardTool applications to be archived in non-volatile memory and activated when inserted into the handheld computer. The flash memory can also back-up critical transaction data. In the event the Handheld computer is disabled, just insert the CardTool reader into another handheld and resume where you left off. Not only do you save installation time, but all the time and effort that went into creating critical card transaction data. What is the cost of losing a day's worth of transactions?



CardTool Reader Block Diagram

System Development Kit

The CardTool System Development Kit has been designed by TokenWorks to get developers developing quickly. The less time spent searching for needed information and support, the quicker your product gets to your customer. The SDK contains; One CardTool reader Module, Sample encoded magnetic striped cards, shared library, sample application with source code, user and quick start documentation, programmers reference documentation, and email technical support. The SDK supports the GNU and CodeWarrior compilers. Check the TokenWorks web site for pending support for other development environments.

CardTool Reader Module Specifications

- Weight—2.5 ounces / 71 grams
- 3.3"x3.0"x1.1" / 84mmx77mmx27mm (LxWxH)
- 1 or 2 Mbytes of Flash memory—Field Updateable for software applications and card transaction database files
- Field Updateable magnetic card decode algorithms and proprietary functions
- Applications can run entirely in flash memory without taking away Visor computer memory
- Bi-directional card swiping
- Cards thickness from 0.76 mm± 0.08 mm thick.
- Read data densities of 60 to 265 BPI.

Durability

- **MTBF:** The reader chassis electronics have a minimum mean time before failure in excess of 300,000 hours
- The read head chassis are designed for at least 500,000 swipes.

The following specifications apply for bit densities of 75 or 210 BPI on ISO 7811 compliant media:

- **Media Speed:** The readers read at speeds from 10 to 180 cm/second (4 to 71 IPS).
- **Media Specifications:** 300 - 4000 Oersted.

Environmental

- Operational Temperature = -20° to +50° C
- Storage Temperature = -30° to +70° C
- Humidity (non condensing) = 90% to 40°C

Electrical

- Shut Down current < 0.25mA
- Card Processing standby < 4mA
- Card Processing active < 15mA
- Flash Write/Erase current < 20mA
- Flash Read current < 9mA

Visor Handheld Specifications

Presently there are six Visor Handheld models; the Visor Deluxe, Visor Neo, Visor Platinum, Visor Pro, Visor Edge, and the Visor Prism. Visit www.handspring.com for complete product information.

- **RAM:** 2 MB, 8 MB or 16 MB depending on the model.
- Springboard expansion slot for CardTool reader module or other Springboard modules
- Infrared transceiver to beam records and software to other Handspring or Palm devices
- Palm OS version 3.1 or 3.5.2 depending on model.
- Easy to use large touch screen display (160 x 160 pixels) with backlight. Prism has 65,000 colors display
- Power 2 AAA alkaline batteries or Internal rechargeable lithium ion battery. Rechargeable NiMH can replace alkaline AAA batteries.



Preliminary Product Information. Subject to Change Without Notice.

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