

Micro SMART

CONTACTLESS SMART CARD READER / WRITER

Let's Get Smarter !!!



MicroSMART : SALIENT FEATURES

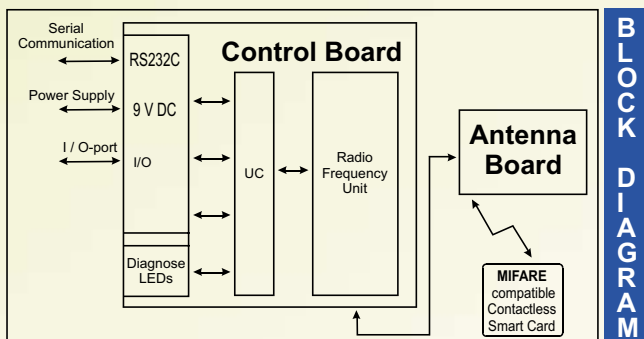
- Philips MIFARE Technology (ISO14443 Type A)
- Typical Operating Distance 100 mm
- Compatible to 1KB/4KB Mifare RF Cards
- Standard RS 232C Interface
- DLL for Windows Development
- ASCII protocol for embedded systems

The **MICRO SMART** serial proximity reader is a fully functional read / write device that is controlled via a serial interface (RS232). With its integrated antenna, it provides a typical operating range of upto 100 mm. The Onboard Micro controller provides a powerful firmware, which supports all the basic functions for accessing **PHILIPS MIFARE** compatible 1KB/4KB smart cards, and with a serial interface, it is easily integrated into a system.

It serves your demand for use in embedded system or handheld devices. This serial reader is also well suited for slot or surface readers (e.g. ATMs , Vending machines). Typical high volume applications are parking meters, highway Toll gates, unmanned weigh bridges, vehicle tracking, work-in-progress, prepaid gas and electric meters. PC based applications include System Authorization, E-purse, PC Login, Loyalty Cards, Medical Data, Library & multi-application Campus cards etc....

A simple connection of the serial interface to a computer or uC is the only hardware requirement, besides the design of the User Application Program. This reader can even be used as a hardware peripheral so that the user can design his own specific software based on any embedded controller. Software drivers i.e.: DLL(for Windows) & ASCII protocol (for DOS , microcontroller & other embedded products) are available for easy system integration.

The **MICRO SMART** Serial Proximity Reader (Short Range) consists of a **MIFARE RC 500 Smart IC**, a uC and a serial interface (DB9 connector) mounted on a PCB, which also carries the antenna for the data communication with a contactless **MIFARE** compatible Smart Card. For PC based applications the **MICRO SMART** is housed in an attractive ABS enclosure.



BUILT - IN FUNCTIONS

- “Auto Increment/Decrement” on Card usage for Vending Application
- “Auto Data Send” for a Information from a Block to be transmitted upon card usage for ID#/Name/Password etc.
- “Auto Digital Output” upon Card usage for switching Application
- “26/34 Bit Weigand Output Port” for Card Reader Application
- “Name, ID #, PIN, Site Code” programming Function for personalisation of Id card
- “Card Present” signal for Card usage Time
- “Value Block” for E-Purse Application
- “Key A / Key B” definition for each sector for Multi-Application
- “Addressable” for distributed application
- “TCP/IP” Enabled using driver function

TECHNICAL SPECIFICATION

Operating frequency	13.56 MHz.
Power supply	Typ.70 mA(max. 90 mA)
Supply voltage	6-8 VDC
Operating temperature	- 10 .. +70 C
Max. humidity	98%
Storage temperature	-25 .. +85 C
Dimensions	95(H)x67(W)x30(D)mm
Interface to host	RS232C
Baud rate	9600 BPS
Operating distance (typ.)	100 mm
Weigand O/P	26/34 bit Weigand output

ORDERING INFORMATION

- MicroSMART R/W : Contactless Smart Card Reader/Writer
- MicroSMART Reader : Contactless Smart Card Reader (Wiegand O/P)
- Smart_Card : MIFARE Compatible 1KB/4KB RFID Card

FOR DEVELOPERS

MicroSMART Developer Suite

- Contactless Smart Card Reader / Writer
- Smart_DLL : DLL in CD for Win98/NT/2000
- Smart_ASCII : ASCII protocol for Embedded Products
- MIFARE Compatible 1KB Card - 5 Nos.

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