

K531-485

OEM CONTACTLESS READER/WRITER MODULE WITH ANTENNA AND RS-485 INTERFACE



Ready-to-use ISO/IEC 14443-A/B reader/writer with antenna and a standard RS-485 long-distance serial interface that can be embedded in virtually any kind of appliance

KEY FEATURES

K531-485 is dedicated to integrators who need to work with any ISO 14443-A/B cards such as Mifare, DESFire, Calypso and more.

Thanks to its asynchronous serial communication interface, K531-485 is really easy to operate from any microcontroller or host computer.

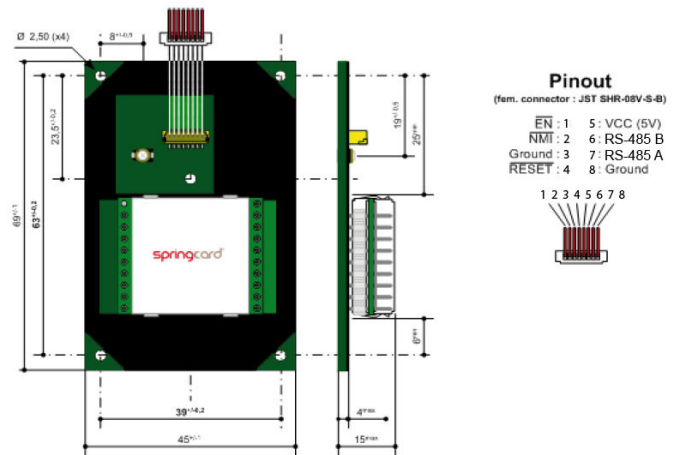
K531-485 has many features that make it the only product on the market to provide such flexibility at low cost.

- Metallic bonnets to protect from radiations
- Ferrite on antenna to protect other components from radiations
- Embedded T=CL protocol, ISO/IEC 14443 A & B compliance from layer 1 to 4. Able to read/write all files/sectors of Mifare, DESFire,...
- High level function set
- High speed communication

A FEW TYPICAL APPLICATIONS

- vending machine,
- card printer,
- access control gate
- enrollement station,
- and more

DETAILED VIEWS



SPRINGCARD & PRO ACTIVE

Established in 2000, Pro Active is an innovative provider of smartcard-related solutions, and one of the leaders on the contactless-reader market.

SpringCard distributes Pro Active's contact and contactless products worldwide, under a single brand name.

HEADQUARTERS, EUROPE
SPRINGCARD

13 voie la Cardon
Parc Gutenberg
91120 Palaiseau
FRANCE

Phone : +33 (0) 164 53 20 10
Fax : +33 (0) 164 53 20 18

AMERICAS
SPRINGCARD

964 Fifth Avenue
Suite 235
San Diego, CA 92101
USA

Phone : +1 (619) 544 1450
Fax : +1 (619) 573 6867

www.springcard.com

A PRO ACTIVE BRAND

Pro Active

K531-485

OEM CONTACTLESS READER/WRITER MODULE WITH ANTENNA AND RS-485 INTERFACE



TECHNICAL SPECIFICATIONS

Contactless smartcard interface

Standards	ISO/IEC 14443 A and B, T=CL
RFID carrier	13.56 MHz
Operating distance	typical 5 cm - up to 8cm depending on card and antenna
Card baud rate	106, 212 or 424 kbit/s
Supported cards (partial list) : NXP (Philips) MIFARE Classic & UltraLight NXP (Philips) DESFIRE, SmartMX, ProX Infineon SLE66 family ST MicroElectronics SR, SRI, SRIX families ASK CTS256/CTS512 Calypso (CD97, CD21, GTML, etc) And virtually any ISO 14443 A or B compliant smartcard	

Environment and safety

Operating temperature	-20 → +70°C
Storage temperature	-40 → +85°C
MTBF	500 000 hours
CE mark	EN50082 / EN55022 class B ¹
FCC	Part 15
Other standards	RoHS

¹Safety: EN60950: 2001 ; EN 50364 : 2001, EMC:EN 301 489-03 v1.4.1 ; EN 301 489-01 v1.6.1

Serial Interface

RS-485 bus	asynchronous serial communication 8 data bits, 1 stop, no flow control 38400bps
Power supply	5 V DC
Consumption	200mA typical
Connector	JST: BM08B-SRSS-TB(LF)(SN) Corresponding female connector (<i>not provided</i>) : JST: SHR-08V -S -B

Hardware specifications

Dimensions (LxWxH)	45 x 69 x 15 mm
Weight	≈ 14g
Housing	Metalic bonnets on K531 Ferrite shield on antenna

ORDER CODES

PART #	Description
K531-485	ISO 14443-A/B OEM module with antenna and RS-485 interface

Information in this document is subject to change without notice.

Copyright © PRO ACTIVE SAS 2008, all rights reserved.
Reproduction without written permission of PRO ACTIVE is forbidden.
SPRINGCARD, PRO ACTIVE, and both logos are registered trademarks of PRO ACTIVE SAS.
All other trademarks are property of their respective owners.

PRO ACTIVE company with a capital of 227 000 €
R.C.S. EVRY B 429 665 482
N.A.F. 722 C
VAT # : FR 27 429 665 482
France

www.springcard.com

A PRO ACTIVE BRAND
Pro Active