

K632-TTL

OEM CONTACTLESS READER/WRITER MODULE WITH ANTENNA AND TTL INTERFACE



Ready-to-use ISO/IEC 14443-A/B and ISO/IEC 15693 reader / writer with antenna and RX/TX at TTL level that can be embedded in virtually any kind of appliance

KEY FEATURES

K632-TTL is dedicated to integrators who need to work with any ISO 14443-A/B or ISO 15693 cards/tags such as Mifare, DESFire, Calypso and more.

Thanks to its asynchronous serial communication interface, K632-TTL is really easy to operate from any microcontroller or host computer.

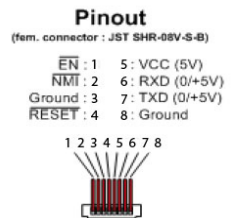
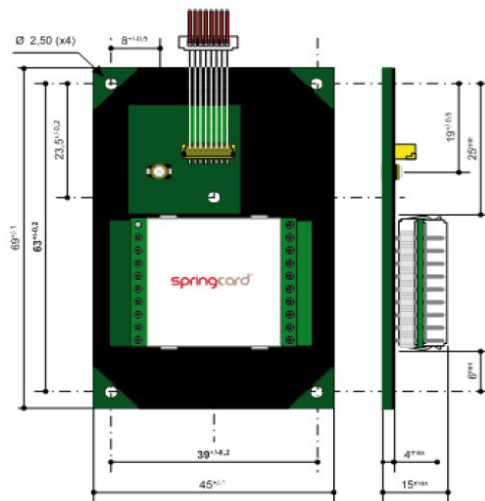
K531-TTL has many features that make it the only product on the market to provide such flexibility at low cost.

- Metallic bonnets to protect from radiations
- Ferrite on antenna to protect other components from radiations
- Embedded T=CL protocol, ISO/IEC 14443-A/B (from layer 1 to 4) and ISO/IEC 15693 compliance. 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



/EN : not used.

/NMI :

- 5V normal mode

- 0V flash mode (to update the firmware)

/RESET : must be at 5V. Put at 0V to reset the reader.

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

K632-TTL

OEM CONTACTLESS READER/WRITER MODULE WITH ANTENNA AND TTL INTERFACE



TECHNICAL SPECIFICATIONS

K632 Contactless smartcard interface

Standards	ISO/IEC 14443 A and B, T=CL ISO/IEC 15693 and 18000-3
RFID carrier	13.56 MHz
Operating distance	typical 5 cm - up to 8cm depending on card and antenna
Card baud rate	106, 212, 424 or 848 kbit/s depending on antenna

Supported cards (partial list) :

- NXP (Philips) ICODE1, ICODE-SLI, etc
- Texas Instrument TagIT
- NXP (Philips) MIFARE Classic & UltraLight
- NXP (Philips) DESFIRE, SmartMX, ProX
- Infineon SLE66 family
- ST MicroElectronics SR, SRI, SRIX families
- HID iClass, Inside PicoTag
- ASK CTS256/CTS512
- Calypso (CD97, CD21, GTML, etc)¹

And virtually any ISO/IEC 14443 A or B compliant smartcard, or ISO/IEC 15693 compliant RFID label

Hardware specifications

Dimensions (LxWxH)	45 x 69 x 15 mm
Weight	≈ 14g
Housing	Metallic bonnets on K531 Ferrite shield on antenna
Connector	JST: BM08B-SRSS-TB(LF)(SN) Corresponding female connector (<i>not provided</i>) : JST: SHR-08V -S -B

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, EMCEN 301 489-03 v1.4.1 ; EN 301 489-01 v1.6.1

Serial Interface

RX/TX pins (CMOS/TTL)	asynchronous serial communication 8 data bits, 1 stop, no flow control 9600, 38400 or 115200bps
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

ORDER CODES

PART #	Description
K632-TTL	ISO 14443-A/B and ISO 15693 OEM module with antenna and TTL 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**