

RDR-TTL

OEM RFID SCANNER - MODULE WITH ANTENNA AND RS-TTL INTERFACE



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

KEY FEATURES

RDR-TTL is a standalone reader and performs all the job on its own. There is no need to develop any software. Collected data are then transmitted to the computer in a serial communication stream.

Thanks to the RDR-TTL, reading RFID chips is as easy as reading a barcode.

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

- Metallic bonnets providing optimal CEM characteristics and noise immunity
- Ferrite-shielded antenna improves operation even near metal or other PCBs
- Embedded T=CL protocol, ISO/IEC 14443-A/B (from layer 1 to 4) and ISO/IEC 15693 compliance. Able to read all files/sectors of Mifare, DESFire,...

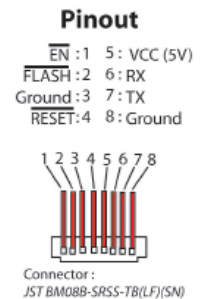
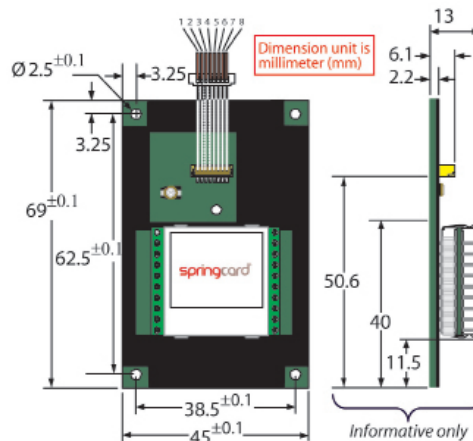
EASY CONFIGURATION

RDR-TTL is fully configured through a secure master card. The scanner is able to run 4 recognition templates simultaneously.

A FEW TYPICAL APPLICATIONS

- Loyalty program, user identification and asset tracking,
- Access Control,
- Logistics and RFID asset management

DETAILED VIEWS



PIN Assignments	Notes
1 /EN - Not used	Must be left unconnected
2 /FLASH - 5V : normal operation 0V : firmware upgrade	Can be left unconnected
3 Ground	
4 /RESET - 5V : normal operation 0V : module reset	Can be left unconnected
5 VCC (5V)	
6 RX (TTL)	Host to module
7 TX (TTL)	Module to host
8 Ground	

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)1 64 53 20 10
sales@springcard.com

AMERICAS SPRINGCARD

6161 El Cajon Blvd
Suite B, PMB 437,
San Diego, CA 92115
USA

Phone : +1 (713) 261 6746
sales-usa@springcard.com

www.springcard.com

A PRO ACTIVE BRAND

Pro Active

RDR-TTL

OEM RFID SCANNER - MODULE WITH ANTENNA AND RS-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) : <ul style="list-style-type: none"> ▪ 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) 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 K632 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*
FCC	Part 15
Other standards	RoHS

*Safety: EN60950: 2001 ; EN 50364 : 2001, EMC:EN 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
RDR-TTL	ISO 14443-A/B and ISO 15693 OEM RFID scanner module with antenna and TTL interface

Information in this document is subject to change without notice.

Copyright © PRO ACTIVE SAS 2010, 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