

K531

OEM CONTACTLESS READER/WRITER MODULE



K531 is an ISO/IEC 14443 contactless reader/writer module for OEM integration

KEY FEATURES

K531 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 is really easy to operate from any microcontroller or host computer.

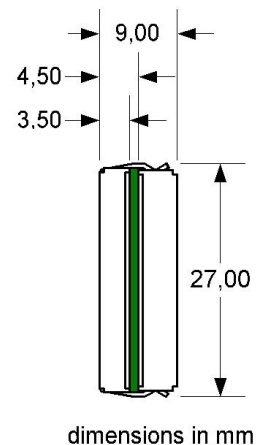
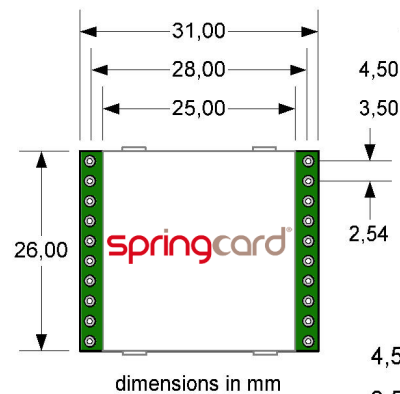
The K531 OEM module needs an external antenna to operate. The antenna has to be designed depending on your own application (size requirements, expected operating distance).

SpringCard also offers a basic antenna suitable for most uses, with various serial interface options. SpringCard can also develop and embed a dedicated firmware into the K531 in order to gain the highest performances or to free the host from any card-related processing.

A FEW TYPICAL APPLICATIONS

- Ticketing, transportation, road toll pricing
- RFID tracking, loyalty
- Private money payment, corporate ID card, citizen card
- Physical access control
- 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.

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K531

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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, 424 or 848 kbit/s depending on antenna
Supported cards (<i>partial list</i>): 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 → +80°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.

Interface	
CMOS/TTL I/Os	2 LEDs outputs 1 USER input/output (reserved for output driver control in RS-485 operation)
CMOS/TTL serial interface	8 data bits, 1 stop, no flow control 9600, 38400 or 115200bps
Power supply	5 V DC
Consumption	90mA average 200mA max during RF operation

Hardware specifications	
Dimensions (LxWxH)	26 x 31 x 09 mm
Weight	≈ 14g

ORDER CODES

PART #	Description
K531-2R4	ISO 14443-A/B OEM module

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