ISO/IEC 14443 OEM CONTACTLESS READ/WRITE COUPLER (RS-232)

Pro-Active **K531-232** is an ISO/IEC 14443 contactless reader/writer, for OEM integration. **K531-232** features **K531** module mounted on an antenna, with RX/TX on a standard RS-232 serial interface.

K531-232 reads and writes popular Philips MIFARE cards, as well as memory proximity tags from other manufacturers. As a versatile T=CL reader, **K531-232** is also suitable for use with any ISO/IEC 14443 layer 4 smartcards, including Philips DESFIRE cards.

Thanks to its asynchronous serial communication interface, **K531-232** is really easy to operate from any microcontroller or host computer.



Contactless interface

• Compliance: ISO/IEC 14443 A/B (1, 2, 3 and 4),

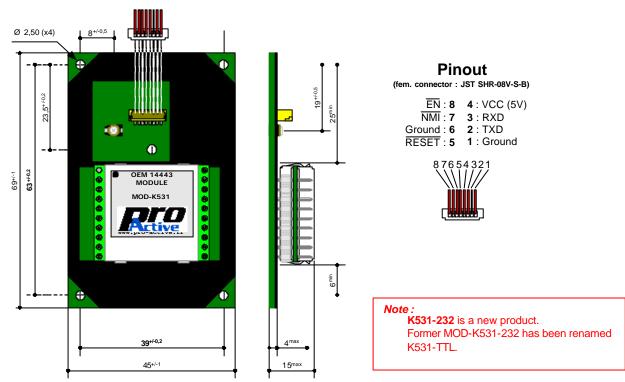
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- T=CL protocol embedded in coupler's firmware (256-byte frames, multi-activation with CID),
- Work with any ISO/IEC 14443 A or B smartcard (Philips DESFire, ProX, SmartMX, Infineon SLE66, STMicroelectronics ST19, ...),
- Read / write Philips MIFARE Classic and UltraLight cards or tags;
 CRYPTO1 cipher unit with secure key storage (MfRC531 chipset),
- Other cards support (Calypso, Jewel, SR176, ...) on request,
- 13.56MHz RFID transmission, 106kpbs to 424kbps baudrate,
- Card operating distance : depends on card type and size ;5cm typical, min 1cm, max 8cm.

Electronics

- Small footprint antenna: 45mm x 69mm x 15mm,
- Ferrite shielding at the rear of the antenna,
- RX/TX pins (RS-232) for asynchronous serial communication (38400 or 115200bps, 8 data bits, 1 stop, no flow control),
- Power supply: 5V DC, 150mA typical,
- Extended temperature range (-20 to +80 °C).

See K531' datasheet for complete specification (ref. PFT12010)



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Pro Active Parc Gutenberg 13 voie La Cardon 91120 Palaiseau 91120 Palaiseau e-mail: info@pro-active.fr

www.pro-active.fr

website:

S.A.S. capital of 227 000 € R.C.S. EVRY B 429 665 485 A.P.E. 722 Z VAT # : FR 27 429 665 482 00015

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