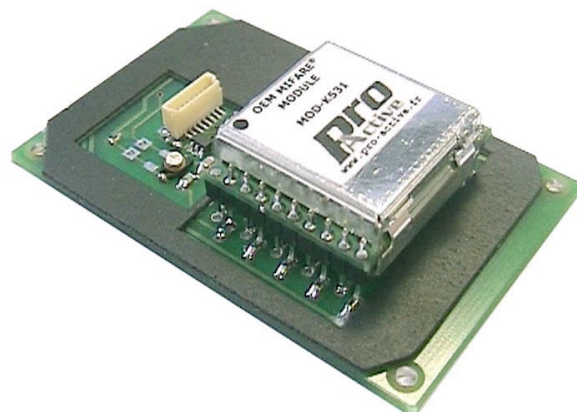


ISO/IEC 14443 OEM CONTACTLESS READ/WRITE COUPLER (RS-485)

Pro-Active **K531-485** is an ISO/IEC 14443 contactless reader/writer, for OEM integration. **K531-485** features **K531** module mounted on an antenna, with a standard RS-485 long-distance serial interface.

K531-485 reads and writes popular Philips MIFARE cards, as well as memory proximity tags from other manufacturers. As a versatile T=CL reader, **K531-485** is also suitable for use with any ISO/IEC 14443 layer 4 smartcards, including Philips DESFIRE cards.

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



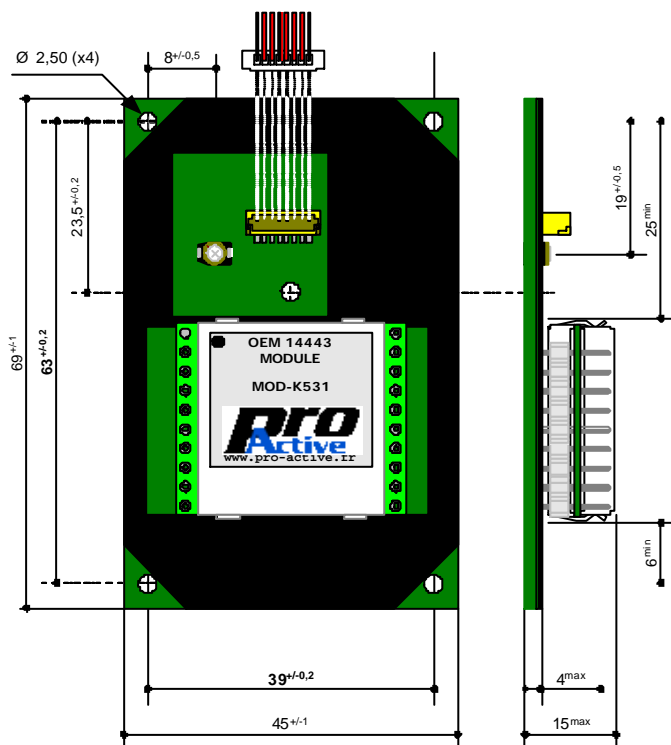
Contactless interface

- Compliance : ISO/IEC 14443 A/B (1, 2, 3 and 4),
- 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, 106kbps 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,
- RS-485 bus I/O for asynchronous serial communication (38400bps, 8 data bits, 1 stop, no flow control),
- Green & Red LED outputs (active low),
- Power supply : 5V DC, 150mA typical,
- Extended temperature range (-20 to +80 °C).

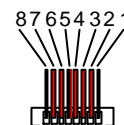
See K531' datasheet for complete specification (ref. PFT12010)



Pinout

(fem. connector : JST SHR-08V-S-B)

Green LED : 8 4 : VCC (5V)
NMI : 7 3 : RS-485 B
Ground : 6 2 : RS-485 A
Red LED : 5 1 : Ground



Note :

K531-485 replaces former **MOD-K531-485**.
Please use this new reference when placing order.

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TECHNICAL DATASHEET

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