

ABSTRACT

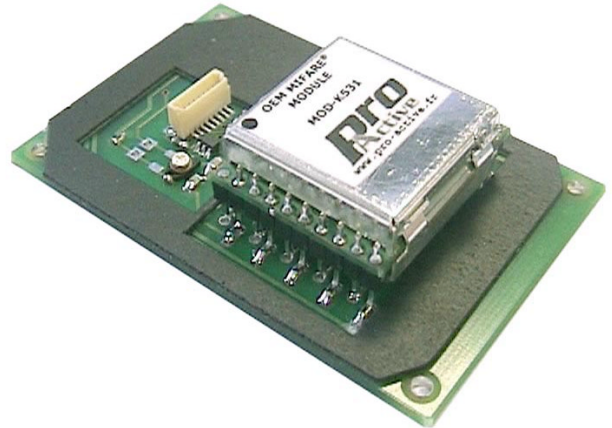
Pro-Active MOD-K531-232 is an ISO14443-A OEM Module equipped with an antenna :

- Read and write access to MIFARE® cards,
- Suitable for use with DESFIRE® cards as well as with other ISO 14443-A T=CL products,
- Philips MF RC531 chipset,
- TTL (0/+5V) Serial interface allows connecting to a PC as well as to a wide range of controller devices,

Same API as Pro-Active SpringProx and CSB products, available in ANSI C through a full-featured developers kit.

The antenna, featuring :

- a ferrite shield,
- a serial TTL (0/+5V) to RS interface,



SAMPLE APPLICATIONS

- Ticketing, transportation,
- Tracking,
- Loyalty,
- Private money payment, road toll pricing,
- Physical access control

Upon request, a dedicated firmware may be developed and embedded into the MOD-531 for the highest performances in your specific application.

ORDER CODES

Pro-Active MOD-K531 OEM module with antenna :

- MOD-K531-232

Related starter kit :

- SRK-K531

Pro-Active MOD-K531 OEM module without antenna or Pro-Active MOD-K531 OEM module + square antenna with RS422 interface : see related datasheet

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DATASHEET

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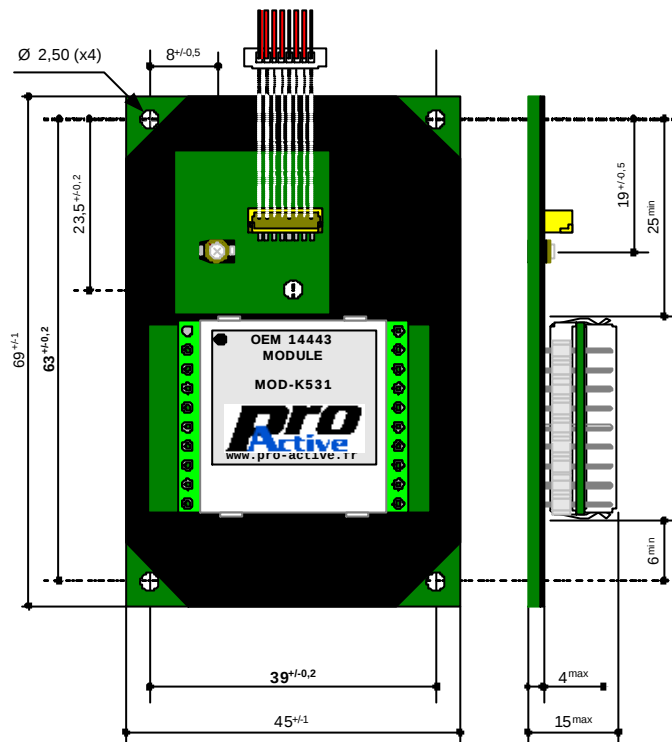
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S.A.R.L. capital of 100 000€
R.C.S. EVRY B 429 665 482
A.P.E. 722Z
VAT#. FR27 429 665 482 00015

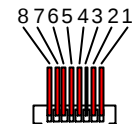
DETAILED VIEWS



Pinout

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

EN : 8 4 : VCC (5V)
 NMI : 7 3 : RXD (0/+5V)
 Ground : 6 2 : TXD (0/+5V)
 RESET : 5 1 : Ground



TECHNICAL DATA

DescriptionISO14443-A OEM
Reader module with
antenna.

Order codeMOD-K531-232

Size69 x 45 x 13 mm

Weight30 g

**Temperature
range**.....-20°C → +80°C

Power supply.....5 VDC

**Power
consumption**.....90mA typ. (depending
on antenna tuning and
power mode)

**Operating
distance**.....up to 60mm (depending
both on the tag and on
the antenna tuning)

**Serial
interface**RX/TX, CMOS-TTL (0/+5V)
38400 bauds or 115200 bps
(8 bits, 1 stop, no parity, no flow control,
other baudrates available on request)

TTL-CMOS I/Os...Green & red LEDs (soft. controlled)
Bi-directional USER pin (soft. controlled)
Module enable / Module reset pins

Other I/Os.....RC531 both MFOUT & MFIN pins for
specific hardware development

Supported tag.....MIFARE® Standard / UltraLight (native),
MIFARE® DESFire (soft. API),
ISO14443-A tags (soft. T=CL API),

Starter Kit.....Pro-Active SpringProx API (ANSI C)
(featuring the whole Philips MIFARE® /
PEGODA® function set) available
separately

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