



# Reader



## The RDR518

is a cost effective, high speed, multi-standard and multi-application USB contactless reader. Thanks to its high integration and state of the art conception, the RDR518 reader supports all proximity ISO contactless cards, contactless paper tickets and contactless-enabled mobile phones.

The RDR518 reader is based on the same platform as the CPL108 / CPL528 family and is designed to satisfy the growing demand for performance, security and ergonomics in new contactless applications.



## Reader RDR 518

A universal USB contactless reader

### Main applications

- Transport
- Logical access control
- PC workstation add-on
- Identity
- Banking



### Contactless interface

- Contactless smart cards ISO 14443 A/B/B'
- Contactless Mifare Classic™ cryptography
- Mifare Plus™, Mifare DESFire™ cryptography through NXP SAM™ AV2
- C.ticket®
- Sony Felica®
- High speed RF communication: 106 up to 848 kb/s



### SAM interface

- 4 independent on-board SAM sockets
- ISO 7816 T=0, T=1, high baud rates capability
- Innovatron HSP protocol
- EMV2000 electrical compliance



### Standard Conformity

- CE mark EN300330, EN301 489-3, EN60950-1
- FCC class B part 15
- RCTIFV4 class B
- Calypso



## Physical characteristics

- Dimensions: 119 x 80 x 26 mm
- Weight: 160 g
- Operating temperature: 0 °C to +50 °C
- Humidity: 90% RH non-condensing
- User interface : 4 green leds, 1 buzzer

## Standard communication interface

- RDR518-U: USB2.0 full speed interface, CCID or CDC
  - RDR518-S\*: RS232 serial 115.2 kb/s (9.6 up to 691 kb/s)
- \* volume order product

## Power interface

- RDR518-U: USB bus powered (5 V, 500 mA)
- RDR518-S: Y cable subD9F and USB A for power (5 V, 500 mA)

## Operating system driver

- USB CDC VCP driver or USB CCID PC/SC driver

Drivers are included in operating systems: Windows 7, Windows Vista, Windows XP, Linux, Mac OS X

## Integrated card commands

- Mifare Classic™, Mifare Ultralight™, Mifare Plus™, Mifare Ultralight™ C., Mifare DESFire™, Mifare DESFire™ EV1, SmartMX
- Infineon SLE66 family
- ITSO, VDV KA
- CTS512B, CTM512B, ST SR family
- Sony Felica®
- Java Card®
- Calypso Rev1, Rev2, Rev3 (TanGO, CD21, GTML, GTML2, CD97, CDLight, CT2000...)
- Any ISO 14443 A/B/B' standard card

## Development kit available

The development kit features a set of tools to enable quick and easy development to operate contactless cards, C.tickets® and readers. It is available in a package containing:

- 1 RDR518-U reader
- 1 full range of contactless cards and C.tickets®
- 1 Calypso SAM and 1 NXP SAM™ AV2
- 1 USB flash drive with:
  - Software drivers, evaluation applications
  - Libraries and technical documentation

