# EVOLIS

# EVOLIS ELYCTIS DUAL

011101100  011101100

# PRINTER OPTION

## DUAL SMART CONTACT AND CONTACTLESS CARD ENCODING

The **Evolis Elyctis Dual** encoder has been designed in partnership with Elyctis, an expert in IDENTIV chipsets integration, with a focus on delivering a compact and efficient dual-feature device to be implemented in most of the Evolis printers.

This encoder is available as a basic module with a distinct antenna, an ISO SAM slot and an ISO interface to the contact station.

It is plugged to the USB port hub inside the Evolis printer.

This new module offers superior performance in terms of speed, security and interoperability, and is optimized to manage electronically secured IDs and financial cards.

The encoder is compliant with EMV 2011 standard.

Supplied with PC/SC drivers, the encoder supports Windows XP and Windows 7 and 8 platforms.

**Target markets**
- **Payment**
- **Access Control**
- **Transit pass**
- **Secured ID**

**Supported Printers**

*- Factory mounted*
- Zenius Expert
- Primacy
- Primacy Lamination
- Quantum2
- Securion
- Avansia

*- On-site upgrade*
- Zenius Expert
- Primacy
- Primacy Lamination
- Quantum2
- Avansia

*- Upon project request*
- Elypso
- KC200/KC200B
- KM500B
- KM2000B

**Software & SDK**
PC/SC Software and dev. kit free of charge

As an option, a secondary board offers an extension of two additional SAM slots.

The whole product is seen as 5 PC/SC readers: 1 contactless, 1 Contact and 3 SIM/SAM.

**About Elyctis**

Established in 2008, ELYCTIS has a longstanding expertise in eID projects, as well as hardware and software developments dedicated to Secure Identity Documents (e-passport, e-ID card, e-driver license, ...).

ELYCTIS is a specialist in RFID technology.

# ELYCTIS
e-ID expert

Designed for Evolis by Elyctis © 2016

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| | CONTACTLESS SMARTCARD INTERFACE |
|---|---|
| STANDARDS | • ISO 15693[1]<br>• ISO 14443 Part 1 to 4 Type A & B<br>• Protocol MIFARE & T=CL |
| RFID CARRIER | • 13.56 MHz |
| SUPPORTED CARDS | Complete NXP (Philips) MIFARE family supported:<br>• MIFARE Ultralight<br>• 1K, 4K,<br>• DESFireEV1,<br>• MIFARE Plus,<br>• MIFARE ProX,<br>• MIFARE SmartMX etc… |
| READING DISTANCE | • Up to 8 cm depending on tag, antenna position and environment[2] |
| CARD BAUD RATE | • Up to 848 kbps |
| FIRMWARE | • Field upgradable firmware support<br>• Support to configure RF<br>• Pass-through command to communicate with lower protocol layer for Contact and Contactless interface |
| | CONTACT SMARTCARD INTERFACE |
| STANDARDS | • ISO 7816 Part 1 to 4 - T=0 & T=1 Protocol<br>• EMV 2011 4.3 Level 1<br>• Memory cards (Non ISO Smartcard) supported trough M-Card API |
| SUPPORTED TYPES | • Class A/B/C – 5V, 3V and 1.8V |
| CARD BAUD RATE | • Communication speed up to 600 Kbps – TA1 = 97 supported |
| | SIM / SAM INTERFACES |
| CARD FORMAT | • ID-000 (μSIM) |
| NUMBER OF SLOTS | • 1 slot |
| SMARTCARD CLASS | • A , AB and ABC (5V, 3V, 1.8V cards) |
| | OPTIONAL CARD WITH 2 SIM / SAM INTERFACES |
| CARD FORMAT | • 2 ID-000 (μSIM) slots |
| STANDARDS | • ISO 7816 Part 1 to 4 - T=0 & T=1 Protocol |
| | PC/ SC 2.01 MODE |
| WINDOWS DRIVER | • XP/7/8/10/CE 5.0/Server and PC/SC.Net Wrapper |
| LINUX/ANDROID | • Supported by PCSC-lite CCID driver |
| API & SDK | • Full PC/SC – Free SDK available |

*Data source: Elyctis website: MultiSlot USB Reader datasheet – 2015*

**1.** Used with CR80 contactless cards
**2.** Reading distance varies based on operating environment, antenna position and type of card accessed