ADRB

NFC / MIFARE® / FeliCa™ - Desktop Reader

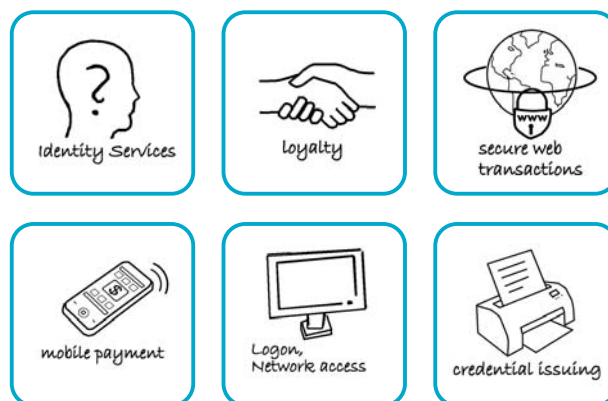- ■ **ISO14443, ISO18092 Near Field Communication (NFC)**
- ■ **Peer–to–peer (P2P)**
- ■ **Sony FeliCa™**
- ■ **EasyCommunication protocol**
- ■ **PIN code protected EEPROM area**
- ■ **libnfc compliant**
- ■ **Optional PC/SC 2.01 compliant driver**

Typical Applications

- ▪ NFC and mobile applications
- ▪ PC log-on, network access, online payment
- ▪ Payment, Point of Sales (PoS), loyalty schemes
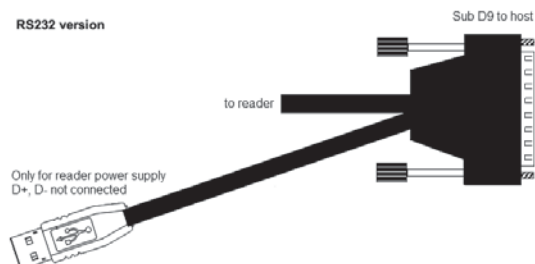- ▪ Tag personalization

The IDENTIVE NFC Desktop Reader is one of the fastest, most reliable and flexible NFC readers in the market. It supports all major transponders and is compliant with NFC Tag Type 1, 2, 3, 4. Besides peer-to-peer communication (ISO18092), it covers Topaz, FeliCa (unsecured mode) as well as NXP MIFARE Classic, MIFARE Ultralight / Ultralight C, MIFARE DESFire / EV1, Infineon my-d move and contactless or Dual interface smart cards.

Due to the EasyCommunication protocol, IDENTIVE desktop reader allows fast and easy application development, can communicate with several NFC mobile phones and can be delivered with a customized logo sticker or printing.

Ordering Information

ADRB-USB: USB, USB bus powered
ADRB-232: RS232, powered via USB type A connector

ADRB

NFC / MIFARE® / FeliCa™ - Desktop Reader

Parameters		Descriptions
Interfaces	Host	• USB: Full speed 2.0 via Virtual Com Port (VCP) - Baud rate up to 460.8kBaud / 8, N, 1 • RS232: Baud rate up to 230.4kBaud / 8, N, 1
	Contactless / NFC	• Supported standards: ISO14443 A & B, ISO18092 • Communication speed: Baud rate up to 424kBaud • Reading distance [cm]: Up to 5 – depending on tags and antenna
	Human	• LEDs • Optional buzzer[2]
Supported Tags		• MIFARE family: Classic 1K / 4K, Ultralight / Ultralight -C, DESFire, DESFire EV1 • Topaz[1], FeliCa™[1] (unsecure), my-d™ move, my-d™[1] • NFC Forum Tag Types 1-4, ISO14443-smart cards ICs
Antenna		• Integrated
Software	Command set	• EasyCommunication protocol, direct chip-commands support
	Firmware	• Infield upgradeable
Hardware	Special features	• User I/O: 8 GPIOs, 1 x Open drain (PIN), 1 x PWM (PIN) and 1 x analog input (solder pad), user interrupt pin for wake up, 2 line LCD support
Operating Systems	Drivers	• VCP: Windows 2000 / Server 2003 / XP / Vista / 7, Linux, Mac OS X (32 & 64-bit) • PC/SC[2]: Windows 2000 / XP / Vista , Linux (32-bit only)
Power	Supply [V_{DC}]	• ADRB-USB: USB bus powered • ADRB-232: 5 (±5%) via USB type A connector
	Consumption [mA]	• Up to 120 (approx.) / Sleep mode: (approx.) 2 – ADRB-USB
Dimensions	L x W x H [mm]	• 55 x 90 x 13
Weight	[g]	• (approx.) 18
Temperature	Operating [°C]	• -20 to +80
	Storage [°C]	• -40 to +85
Approvals	Funtional	• Microsoft® WHQL (VCP driver)
	Environmental	• RoHS, WEEE

Technical data are subject to change without notice.

Notes:

1. Through direct chip-commands support
2. The PC/SC driver provided for this reader is just an alternate driver for supporting PCSC based applications; it is not a mandatory driver for the normal functionality of this reader

Contacts

Identive GmbH
Oskar-Messter-Str. 13
85737 Ismaning
Germany

Phone   + 49 89 9595 5000
sales@identive-infrastructure.com

Identive Group, Inc
1900-B Carnegie Avenue
Santa Ana, CA 92705
USA

Phone   + 1 888 446 9008
scmsales@identive-infrastructure.com

Identive KK
GoogolPlex Millennium Building 6F
4-4-20 Shiba, Minato-ku,
Tokyo, 108-0014, Japan

Phone   + 81 3 6414 6611
sales@identive-infrastructure.co.jp

Identive GmbH
Unit 11, 4607-11,
The CENTRE
99 Queen´s Road Central
Hong Kong

Phone   + 91 44 2254 0020
sales@identive-infrastructure.com