



**IDENTIVE**

# AMix

Multi-ISO - 13,56MHz Reader



- Supports ISO14443 & ISO15693
- Optimized antenna design for tag-on-metal & phone sticker tags
- Upgradeable firmware
- PC/SC compliant
- Composite device with a PC/SC interface (Standard CCID) and a HID Keyboard Interface (optional)
- USB 2.0 or RS232



## Typical Applications

- Payment and loyalty
- Logical PC / network access
- Transport & Event ticketing
- Tag personalization stations
- Library & Campus applications
- Car rental – Hotel reception



The Identive Multi-ISO Reader, USB offers a cost-efficient desktop solution for the high frequency (13.56 MHz) standards ISO14443 and ISO15693 in a single device with compact dimensions and a bi-colour status LED.

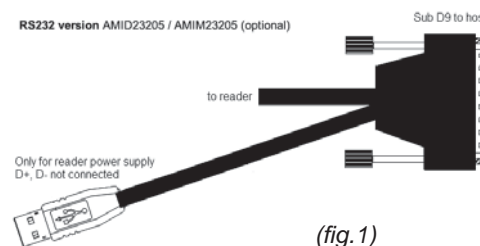
The reader communicates with the host application via standardized PC/SC interface. Drivers are available for for all common Windows desktop operating systems like Windows 7.

It supports reading and writing of ISO14443A & ISO14443B memory or dual interface processor chip cards as well as of all ISO15693 tags. This includes all chips of the NXP MIFARE family like MIFARE Ultralight/ Ultralight C, NXP NTAG, Classic 1K and 4K, DESFire/DESFire EV1, Plus, SmartMX and also Innovision/Broadcom Topaz, Infineon my-d move and the NFC Forum Tag Types 1, 2 and 4.

To simplify the development of applications we recommend the purchase of the Multi-ISO Reader SDK (Software Development Kit). For details about the SDK content please check page 2.

## Ordering Information

- AMID2US00:** Desktop Reader, USB
- AMID23205:** Desktop Reader, 5V<sub>DC</sub>, RS232 (fig. 1)
- AMIM2US00:** OEM Reader Module, USB
- AMIM23205:** OEM Reader Module, 5V<sub>DC</sub>, RS232 (fig. 1)



(fig. 1)



# AMix

## Multi-ISO - 13,56MHz Reader

Parameters		Descriptions	
		USB Desktop Reader / OEM Module	RS232 Desktop Reader / OEM Module
Interfaces	Host	• USB: Full speed 2.0 (12 Mbps)	• RS232: Upto 460.8kbps
	Contactless / NFC	• Supported standards: ISO14443 A & B, ISO15693 • Communication speed: Baud rate up to 848kbaud • Reading distance [cm]: Up to 10 - depending on tags and antenna	
	Human	• Optical: Bi-color LED (green, red)	
Supported Tags		• MIFARE family: Classic 1K / 4K, Ultralight / C, Plus, DESFire and DESFire EV1 • Topaz, my-d™, Smart cards ICs	
Antenna		• Integrated	
Software		• PC/SC compliant • USB CCID compliant (optional) • HID – Keyboard emulation (optional)	• Embedded PS/SC APDU protocol (e-PC/SC)
	Firmware	• Infield upgradeable	
	Special features	• DES & AES encryption/decryption for MIFARE Ultralight / C, Plus, DESFire / DESFire EV1 • Support for storing MIFARE and DESFire authentication keys	
• Support to configure RF and USB parameters		• Support to configure RF and RS232 parameters	
Operating Systems	Drivers	• PC/SC: Windows XP / 2003 / Vista / 2008 / 7 (32 & 64 bit)	• Windows® 2000, XP, Vista (Driver not required) • Any embedded OS with serial host interface
Power	Supply [VDC]	• USB bus powered	• 5 (±5%)
	Consumption [mA]	• Up to 150mA • Sleep Mode (approx.) 500µA	• Up to 150mA
Dimensions	L x W x H [mm]	• 64 x 102 x 13 – Desktop • 55 x 90 x 7 – OEM Module	
Weight	[g]	• (approx.) 19 – OEM Module	
		• (approx.) 82 - Desktop	• (approx.) 136 - Desktop
Temperature	Operating [°C]	• -20 to +50	
	Storage [°C]	• -40 to +85	
Approvals		• FCC, CE, RoHS, USB IF certified, Microsoft® WHQL	
Content	Desktop / Module	• Documentation, drivers & sample/demo applications via download	
	SDK	• 1x Multi-ISO Desktop Reader, USB • 1x CD-ROM with documentation, source code examples (VC++, VB, C#.Net & JAVA), sample/demo applications • Selected sample tags	

Technical data are subject to change without notice.

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