



# Multi-ISO High Frequency Reader with Keyboard Emulation

uTrust SmartFold Contact Smart Card Reader (Type A USB Connector)

- **UNIQUE**  
USB CCID interface with USB HID keyboard emulation function
- **COST-EFFICIENT**  
Supports converging applications and devices utilizing ISO 14443 and 15693 tags
- **FUTURE-PROOF**  
Scalable, upgradeable, and compatible with various applications
- **EASY TO INTEGRATE AND MAINTAIN**  
Utilizes existing PC/SC standard for USB
- **CONVENIENT**  
Uses deployed ISO 15693 and 14443-based tags

Identiv's radio frequency identification (RFID) Multi-ISO High Frequency Reader with Keyboard Emulation offers a cost-efficient desktop solution for high frequency (13.56 MHz) standards ISO 14443 and ISO 15693 in a single device. In contrast to a traditional PC/SC chipcard reader, this reader provides a USB CCID-compliant interface with an USB human interface device (HID) keyboard emulation function. This enables to read the unique identifier (UID) and chip serial number (CSN) of any ISO 14443A, ISO 14443B, and ISO 15693 passive RFID tag and paste it as a string at the cursor position into any host application (i.e., browser, email, Word/Excel document, or any other customer application). This function is comparable to that of a commonly used barcode scanner. The device can be used without driver installation with Windows, Linux, Mac, and Android.

The Multi-ISO High Frequency Reader with Keyboard Emulation provides CCID and keyboard functionality in a single device. With an optional Java application available, it is possible to configure the keyboard emulation function (i.e., selectable delimiter and delay) and switch from automatic UID output to tag memory reading for ISO 15693, MIFARE Classic 1K/4K, Ultralight, Ultralight C, DESFire, DESFire EV1, NTAG 203, and Broadcom Topaz tags. The application also provides the ability to deactivate and activate the HID function.

### Typical Applications

- Point-of-sale (POS)
- Data collection
- Physical and logical access
- Transportation and event ticketing
- POS, terminals, and vending machines
- Tag personalization stations
- Inventory, logistics, and supply chain
- Testing of tags during production
- Printers and other PC peripherals
- Library and other campus applications
- Car rentals
- Industrial markets

PARAMETER	MULTI-ISO HIGH FREQUENCY READER WITH KEYBOARD EMULATION
Interface	USB full speed (12 Mbps)
Supported Standards	ISO14443 Type A and Type B, ISO 15693, and MIFARE®
Communication Protocol	USB CCID compliant protocol and USB HID (human interface device) keyboard emulation function

PARAMETER	MULTI-ISO HIGH FREQUENCY READER WITH KEYBOARD EMULATION
Baud Rate (to Transponder)	106 Kbps, 212 Kbps, 424 Kbps, and 848 Kbps
Power Supply	USB high bus powered; 5 VDC ( $\pm 5\%$ )
Power Consumption	< 300 $\mu$ A standby and 150mA operational; varies based on operational temperature and type of card accessed
Antenna	Integrated
Reading Distance	Up to 10 cm (depends environment and transponder)
Features	<ul style="list-style-type: none"> <li>• PC/SC v2.01.4 compatible driver:</li> <li>• Keyboard emulation support to read UID of ISO14443 A, ISO 14443 B, and ISO 15693 tags, including MIFARE Ultralight, MIFARE Ultralight C, NXP NTAG, MIFARE Classic 1K and 4K, MIFARE DESFire, MIFARE DESFire EV1, MIFARE Plus, SmartMX, and also Innovision/Broadcom Topaz, Infineon my-d move, and NFC Forum Tag Types 1, 2, and 4.</li> <li>• USB device firmware upgrade with proprietary boot-loader via USB interface</li> <li>• DES and AES encryption/decryption for DESFire and DESFire EV1</li> <li>• Support for storing MIFARE and DESFire authentication keys</li> <li>• Support to configure RF and USB parameters</li> </ul>
Indicator	Bi-color green and red LEDs (power and activity)
Dimensions	55 mm x 90 mm (2.17 x 3.54 in)
Weight	18 g (.63 oz)
Operating Temperature	-20° to 50°C (-4° to 122°F)
Storage Temperature	-40° to 85°C (-40° to 185°F)
Approvals	FCC, RED 2014/53/EU, RoHS compliant, USB IF certified, and Microsoft WHQL
Supported Operating Systems	PC/SC driver available for Windows 7/8/10 (32 and 64 bit)
SDK (Optional)	API document and tutorial with sample applications and source code; available for VC 2005, C# .NET, VB 6.0, VC 6.0, and Java
Part Number	AF-AMID2US00-KBD

Identiv, Inc. (NASDAQ: INVE) is a global provider of physical security and secure identification. Identiv's products, software, systems, and services address the markets for physical and logical access control and a wide range of RFID-enabled applications. Customers in the government, enterprise, consumer, education, healthcare, and transportation sectors rely on Identiv's access and identification solutions. Identiv's mission is to secure the connected physical world: from perimeter to desktop access, and from the world of physical things to the Internet of Everything.

Identiv has offices worldwide. Addresses and phone numbers are listed at [identiv.com/contact](http://identiv.com/contact). For more information, visit [identiv.com](http://identiv.com) or email [sales@identiv.com](mailto:sales@identiv.com).

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