IDENTIV

Multi-ISO High Frequency Reader

■ **COST-EFFICIENT**
Supports converging applications and devices utilizing 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 15693 and 14443-based tags

ISO 15693
ISO 14443 A/B
MIFARE DESFire EV1
MIFARE Plus

Identiv's innovative Multi-ISO High Frequency Reader offers a cost-efficient OEM and desktop solution combining all major high-frequency (HF) standards in one device, including ISO/IEC 14443 and ISO/IEC 15693, while utilizing an existing PC/SC and USB-HID standard .

The Multi-ISO High Frequency Reader supports HF transponders from various suppliers, such as Atmel, EM, ST, TI, and NXPwith dedicated support for MIFARE Ultralight C, MIFARE Classic, MIFARE DESFire and more. The reader also connects with near field communication (NFC) devices in tag emulation mode and contactless microcontroller cards, such as NXP's JCOP.

Typical Applications

- Physical and logical access
- Transportation and event ticketing
- POS, terminals, and vending machines
- Tag personalization stations

- Printers and other PC peripherals
- Library and other campus applications
- Car rentals
- Industrial markets

PARAMETER	MULTI-ISO HIGH FREQUENCY READERS
Interface	USB full speed (12 Mbps)
Supported Standards	ISO/IEC 14443 Type A and Type B, ISO/IEC 15693 and MIFARE®
Communication Protocol	USB CCID compliant protocol
Baud Rate (to Transponder)	106 Kbps, 212 Kbps, 424 Kbps, and 848 Kbps
Power Supply	• USB high bus powered • 5 VDC (-5%, +10%)
Power Consumption	• < 300 µA Standby, 150mA operational • Varies based on operating temperature and type of card accessed

PARAMETER	MULTI-ISO HIGH FREQUENCY READERS
Antenna	Integrated
Reading Distance	Up to10 cm (3.94 in), depending on environment and transponder
Features	• PC/SC v2.01.4 compatible driver • USB device firmware upgrade with proprietary boot-loader via USB interface • DES and AES encryption/decryption for MIFARE Ultralight C and MIFARE DESFire • Support for storing MIFARE Classic, MIFARE Ultralight C and MIFARE DESFire authentication keys • Support to configure USB-HID (Keyboard emulation) parameters
Indicator	Bi-color green and red LEDs for power and activity
Dimensions	55 x 90 mm (21.65 x 35.43 in)
Weight	18 g (.63 oz)
Operating Temperature Range	-20° to 50°C (-4° to 122°F)
Storage Temperature Range	-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 is available for VC 2005, C# .NET, VB 6.0, VC 6.0, and Java
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