



Dual Interface Reader HD5

General

HD5 is a dual interface reader that can access any contact and contactless smart cards following the ISO 7816 and ISO 14443 standards. It enables one to conventionally integrate separate and independent applications for contact and contactless technologies into one device and one card.

The HD5 is PC/SC compliant for both contact and contactless interfaces. It provides intelligent support for hybrid and combi cards, such that it detects a contactless card even if it is inserted in the contact card slot. Lastly, it has a built-in ISO 7816 (Class A) SAM slot, which can be used together with a SAM card, for added security in both contact and contactless applications. With additional features such as USB firmware upgradability, HD5 is a cost-effective and powerful dual interface reader designed to provide you with great flexibility and convenience.

Feature

- USB 2.0 full speed
 - CCID compliance
 - Firmware upgradable
 - Support PC/SC
- Contactless smart card interface
 - Mifare classic
 - ISO14443 Type A card
 - ISO14443 Type B card
- Contact smart card interface
 - ISO7816 T=0 CPU card
 - ISO7816 T=1 CPU card
- One SAM card slots
- One bi-color with red and blue LED indicator
- Support buzzer

Specification

Physical Specifications	
Dimensions	117.47mm (L) x 78.30mm (W) x 19.4mm (H)
Case Color	Black
Weight	260g
USB Device Interface	
Protoco	USB CCID
Type	Four Lines: +5V, GND, D+ and D-
Connector Type	Standard Type A

Power Source	From USB port
Speed	USB Full Speed (12 Mbps)
Supply Voltage	5 V
Supply Current	Max. 300 mA
Cable Length	1.5 m fixed cable
Contactless Smart Card Interface	
Standard	ISO-14443 A & B part 1-4
Protocol	Mifare® Classic Protocols, T=CL
Smart Card Read /Write Speed	106 kbps
Operating Distance	Up to 40 mm
Operating Frequency	13.56 MHz
Contact Smart Card Interface	
Number of Slots	1 ID-1 Slot
Standard	ISO/IEC 7816 Class A, B, C (5V, 3V, 1.8V)
Protocol	T=0; T=1
Supply Current	Max. 50 mA
Short Circuit Protection	(+5) V /GND on all pins
Card Connector Type	ICC Slot 0: Landing
Smart Card Read /Write Speed	9,600-420,000 bps
Card Insertion Cycles	Min. 200,000
SAM Card Interface	
Number of Slots	1 ID-000 slots
Card Connector Type	Contact
Standard	ISO/IEC 7816 Class B (3V)
Protocol	T=0; T=1
Smart Card Read /Write Speed	9,600-420,000 bps
Built-in Peripherals	
Buzzer	Monotone
LED Status Indicators	1 Bi-color: red and blue
Operating Conditions	
Temperature	0°C – 50°C
Humidity	5% to 93%, non-condensing
Application Program Interface	
PC-linked mode	PC/SC
Certifications/Compliance	ISO/IEC 7816, ISO/IEC 14443
Supported Operating Systems	Windows® XP, Windows® 7, Windows® 8.1, Windows® 10, Linux®



Applications

- e-Healthcare
- Transportation
- Banking and Payment
- e-Purse and Loyalty
- Network Security
- Access Control

Picture

