

# IRIS E-Passport Reader Axess D2000

The IRIS AXESS D2000 holds passport with physical anti-skimming feature and provides a robust and tamper-resistant platform to retrieve and verify secure data stored in the contactless substrate embedded into conventional passport booklets.

AXESS D2000 is ISO 14443-compliant and with the metal casing, D2000 provides good resistance to eaves dropping and jamming. Four Secure Access Module (SAM) slots are protected by tamper-resistant screws, ensuring high-security standards.

As part of the IRIS electronic passport solution, AXESS D2000 is in accordance to the recommendations by the International Civil Aviation Organisation (ICAO).

## Applications

- Passport issuance
- Airline ticketing
- Border control
- Financial Institutions

## Features and Benefits

- Accepts all travel documents of standard sizes from ID-1 sized contactless card to ID-3 sized electronic passports
- Easy placements of passport on the readers
- Contactless interface and ISO 14443-2, 3, 4 compliant
- LED indicators for power, RF interface active indication
- Supports transparent commands for both contact and contactless chip
- Software Development Kit (SDK) provided for easy software development
- Supports USB bus powered or external power adapter
- Firmware can be upgraded through In-Circuit Programming, if required

## SPECIFICATIONS

<b>Complies to</b>	: ISO14443 A/B, Parts 2, 3 and 4
<b>Special Features</b>	: Support passports with anti-skimming feature. ID1 sized contact card slot with security lock.
<b>RF Interface</b>	
<b>Carrier</b>	: 13.56MHz +/- 7kHz
<b>RF field strength</b>	: Between 1.5Am-1 – 7.5Am-1
<b>Sub-carrier frequency</b>	: Fc/16 ( ~847.5kHz )
<b>Baud Rate</b>	: 106, 212, 424, 848 kbps*
<b>Modulation</b>	: Type A, Type B
<b>Modulation index</b>	: 100% (Type A), 10% - 14% software adjustable (Type B)
<b>Bit coding (Transmit)</b>	: Modified Miller (Type A), NRZ-L (Type B)
<b>Bit coding (Received)</b>	: Manchester (106kbps) NRZ-L (>106kbps) (Type A), NRZ-L (Type B)
<b>Initialization, Anti-collision and protocol</b>	
<b>Frame sizes</b>	: - 64 bytes, 128 bytes, 256 bytes
<b>Anti-collision</b>	: - Bit collision detection, triple cascade level (Type A) - Time slot protocol (Type B)
<b>Initialization</b>	: - REQA, WUPA, Anti-collision, Select, HLTA, De-select, RATS, PPS (Type A) - REQB, WUPB, Slot-Marker, HLTB, De-select (Type B)
<b>Mifare commands</b>	: - Supported
<b>Protocol command Adjustments</b>	: - R(ACK), R(NAK), S(WTX), S(Deselect) - FWI, SFGI (Type A) - SOF, EOF, FWI (Type B)
<b>Supported features</b>	: - CID (Type A) - CID, AFI (Type B)
<b>Electrical specification</b>	
<b>Processor</b>	: 8 bit micro-controller
<b>Memory</b>	: NVRAM 32kB, FLASH 32kB
<b>Host Interface</b>	: USB2.0 Full Speed RS232 serial interface up to 230,400 bps.
<b>Contact card interface</b>	: 1 ID-1 full size card slot with security lock 4 SIM sized card slots Complies to ISO7816-1,2,3 Support 5V and 3V card Features Protocol Type Selection (PTS) up to 115,200 bps Clock frequencies: 3.58MHz, 4.92MHz
<b>LED</b>	: Red (Power) Green (RF Interface active) Yellow (User Configurable)
<b>Power</b>	: USB bus powered (250 mA) or separate power adaptor if serial port is used.
<b>Mechanical</b>	
<b>Material</b>	: Main body powder coat mild steel ABS material bottom casing
<b>Dimension W x D x H (mm)</b>	: 158 x 200 x 165 mm
<b>Weight</b>	: 900 g approx
<b>Environment</b>	
<b>Operating temperature</b>	: 0°C to 50°C
<b>Software</b>	
<b>PC USB driver</b>	: USB2.0 driver for Win XP, Win2000
<b>Support Firmware upgrade</b>	: In System Programming

**Note:** All displays pictured are simulated. Specifications are subject to change without prior notice. Warranty: 12 months.

Distributor/Dealer Stamp



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