

IRIS AXESS E-PASSPORT READER

AXESS D1100



The IRIS AXESS D1100 is specifically designed to read passport in any orientation with good interoperability. Designed with an external MRZ scanner, AXESS D1100 is ideal for passports with open access and passports protected with Basic Access Control (BAC).



LED indicators



MRZ Scanner (optional)



Four SAM slots

AXESS
D1100

GLOBAL SECURITY TECHNOLOGY

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IRIS

IRIS AXESS D1100

This unique reader is designed with an external MRZ scanner for passports protected with BAC. AXESS D1100 is USB powered with a single cable connecting the reader to the PC, ensuring the safety and convenience to the user.

AXESS D1100 is ISO14443-compliant and with its mild steel with powder coat casing, the reader provides strong resistance to eaves-dropping and jamming. Protection against eaves-dropping and jamming will help to ensure security and privacy.

AXESS D1100 is easily set up with no tuning or calibration of Radio Frequency (RF) required. This reader is designed to work with minimum maintenance.

Applications

- Passport issuance
- Airline ticketing
- Border control
- Check-in for Airlines
- Banks (Verify identity)
- Identity verification

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
- PC/SC 1.0 interface
- Works with Golden Reader Tool (GRT)

SPECIFICATIONS

Complies to	: ISO14443 A/B, Parts 2, 3 and 4
Special Features	: Designed to read passports in any orientation and good interoperability. Together with the MRZ scanner, Axess D1100 is ideal for passports with open access and passports protected with Basic Access Control (BAC). Strong resistance against eaves-dropping and jamming. Single cable connecting the reader to the PC. Device is bus-powered. This avoids wires cluttering the workplace. No jumper settings required. All settings are software configurable. No tuning or calibration of RF interface required. This is a reader designed to work with minimum maintenance.
RF Interface	
Carrier	: 13.56MHz +/- 7KHz
RF field strength	: Between 1.5Am-1 – 7.5Am-1, software controllable
Baud Rate *	: 106, 212, 424 and 848 kbps
Modulation	: - Type A and Type B
Modulation index	: - 100% (Type A)
	: - 10% - 14% software adjustable (Type B)
Bit coding (Transmit)	: - Modified Miller (Type A)
	: - NRZ-L (Type B)
Bit coding (Received)	: - Manchester (106kbps), NRZ-L(>106kbps) (Type A)
	: - NRZ-L (Type B)
Initialization, Anti-collision and protocol	
Frame sizes	: - 64 bytes, 128 bytes, 256 bytes
Anti-collision	: - Bit collision detection, triple cascade level (Type A)
	: - Time slot protocol (Type B)
Initialization	: - REQA, WUPA, Anti-collision, Select, HLTA, De-select, RATS, PPS (Type A)
	: - REQB, WUPB, Slot-Marker, HLTB, De-select (Type B)
Protocol command	: - R(ACK), R(NAK), S(WTX), S(Deselect)
Adjustments	: - FWI, SFGI (Type A)
	: - SOF, EOF, FWI (Type B)
Supported features	: - CID (Type A)
	: - CID, AFI (Type B)
Mifare commands	: - Supported
Electrical specification	
Processor	: 8 bit micro-controller
Memory	: RAM 32kB, EEPROM 4kB, RAM upgradeable to NVRAM
Host Interface	: USB2.0 Full Speed
Contact card interface	: 1 ID-1 full size card slot and 4 SIM sized card slots Complies to ISO7816 – Parts 1, 2 and 3 Support 5V and 3V contact cards. Voltage is software selectable Features Protocol Type Selection (PTS) up to 115,200 bps Clock frequencies: 3.58 MHz, 4.92 MHz, software selectable
LED	: Red (Power), Green (RF Interface active), Yellow (User Configurable)
Power	: USB bus powered (400 mA)
Security features	: RAM memory purged after each command. No personalized data retained in reader. Optional tamper detect switch
Optical MRZ Scanner (Optional)	
Data Source	: Machine Readable Passport (MRP) 2 lines of 44 characters Machine Readable Visas (MRV) 2 lines of 44 characters 2 lines of 46 (size II) characters Machine Readable Travel Cards Stock Control Number and Document Number IATA 2 of 5 barcode : Conforming to ICAO Document 9303 IATA Recommended Practice 1720a
Data Standards	
Media Thickness	: 1.25mm
Swipe Velocity	: 10 to 40 cm s-1
Response Time	: 0.9 to 1.4 seconds
MTBF	: 100 000 operating hours
Read head life	: 500 000 passes
Mechanical	
Material	: Main body powder coat mild steel, ABS material bottom casing
Dimensions	
W x D x H (mm)	: E Passport Reader : 158 x 200 x 140 (E Passport Reader) 57 x 215 x 63 (MRZ Scanner)
Weight	: E Passport Reader : 750 g approx MRZ Scanner : 680g approx
Environment	
Operating temperature	: 0°C – 50°C
Software	
PC USB driver	: USB2.0 PC/SC driver for Win XP, Win2000 USB2.0 Proprietary driver for WinXP, Win2000

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



Distributor/Dealer Stamp

13/03/06



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