

IRIS E-Passport Combi Reader AXESS C1000



AXESS C1000 is a unique solution which reads and scans the electronic passport concurrently. This dual e-passport reader retrieves and verifies secure data in electronic passport & proven to be the most technologically advanced solution within the industry.



LED indicators



Smart card slot



Optical scanner



AXESS C1000

GLOBAL SECURITY TECHNOLOGY

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IRIS E-Passport Combi Reader

IRIS AXESS C1000 reader is capable of optically scan, read or write simultaneously in a single action mode, thus reducing the time required to read and scan a chip-based travel document. An exceptional solution ideal for Basic Access Control (BAC) protected passports, AXESS C1000 can recognize and authenticate United States drivers' license and the Malaysian identity card. AXESS C1000 accepts ICAO -9303, ISO-7501 and AAMVA standard documents. The contact-less reader complies with ICAO NTWG recommendations and ISO 14443 A/B standard.

AXESS C1000 is able to automate the process of identifying and verifying large volume of travel document using proprietary algorithms. Highly scalable, customers can add new security features on to the software database. In essence, AXESS C1000 is so flexible that customers can encode the system from a non-electronic passport to electronic passport based in order to maintain the highest level of security.

Applications

- Quality Control for Passport Issuance
- Border Control
- Financial Institutions
- Retail outlets for age verification (tobacco & liquor sales control)

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 available
- Supports transparent commands for both contact and contactless chip
- SDK provided for easy software development
- External power supply which supports 110V to 250V
- Firmware can be upgraded through In-Circuit Programming, if required

SPECIFICATIONS

Document scanner

Read capabilities

- Captures full page color images
- ICAO-9303 defined Machine readable Passport (MRP), 2 lines of 44 (full size) characters
- Machine readable Visas (MRV), 2 lines of 44 (full size), 2 lines of 36 (size II)
- Machine readable travel card, 2 line of 36 (size II), 3 lines of 30 (size I)
- 1 D barcodes including interleaved 2 of 5, Code 128, 3 of 9
- 2D barcode PDF417
- Reads embedded data fields on most documents
- Compares machine readable info with embedded and human readable data
- Reads and parses machine readable zone and verifies the check digits
- Examines all document features, including multi-wavelength security features for evidence of alteration.
- Multiple inspection strategies and technologies to assure the inspection is complete, accurate and conforms to issuing authority's specification. Support retro-reflective laminates such as Confirm™

Capture Window

- : 86.36mm by 127.00mm (3.4" by 5.0")
- Anti-reflective, hardened glass

Initialization time

- : Less than 2 sec

Recycle time

- : Less than 3 sec

Imager

- : CMOS camera, 24 bit RGB camera, 1280 x 1024

Resolution

- : 250 Dots per inch (DPI)
- Better display (real) resolution than most competitors with higher specified resolution.

Illumination

- : Visible, UV-A,B, coaxial lighting, Coaxial-near-infrared (software Programmable), B900IR and proprietary OVD detection illumination

Output image format

- : JPEG and BMP

ICAO contactless E-passport reader specification

Complies to

- : ISO14443 A/B, Part 2,3,4" Part 2 Amendment 2

RF interface

Carrier

- : 13.56MHz +/- 7kHz

RF field strength

- : Between 1.5A/m - 7.5A/m

Sub-carrier frequency

- : Fc/16 (-847.5kHz)

Baud Rate

- : 106,212,424, 848kbps. (Transmit and receive)
- Supports asymmetrical communication speeds.

Contact Card interface specification

Specification

- : One ID-1 full sized smart card slot
- Four ID-0 SIM size card slot

ISO7816 UART

- Baud rates up to 115.6 kbps, supports T=0 and T=1 protocols
- Step-up converter supports 3V/5V smart cards.
- Card clock frequency of 3.56MHz or 4.91MHz

Standard compliance

- : ISO7816-1,2,3,

Smart card connector

- : Landing type capable of 100k cycle life time.

Others

Communication

- : USB2.0 compliance interface (Contact-less reader)
- IEEE-1394 interface (optical reader)

Power

LED

- : External power adaptor
- : 12V Optical Power ON / OFF
- Red/Green Optical Scanner Status Indicator
- Red E-Passport Power ON / OFF.
- Yellow RF Interface active.
- Green Pass
- Red Fail
- Blue Ready

Mechanical

Material

- : PC-ABS material top cover and powder coat metal casing

Dimension WxLxH

- : 19 x 35 x 25 cm

Weight

- : 1200g approximate

Environment

Operating temperature

- : 0 - 40°C

Driver support

Driver

- : USB2.0 driver

OS support

- : Windows XP SP2, Win2000,

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



Distributor/Dealer Stamp



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