

Technical Specifications

RFID Card and Bluetooth® Based Access Control Reader with Keypad - COSEC ATOM RD100K



General	
Credential Support	PIN, BLE, and Card
RF Option	ATOM RD100KE: EM Proximity Card ATOM RD100KM: MIFARE Classic®, MIFARE Plus, MIFARE DESFire EV1/EV2/EV3 & NFC Tag ATOM RD100KI**: HID iCLASS, HID Prox, HID SEOS, MIFARE Classic, MIFARE DESFire, MIFARE Plus, and EM Prox cards. *MIFARE and MIFARE Classic® are trademarks of NXP B.V. **Proximity Cards are now supported by ATOM RD100KI only.

Communication	
Inbuilt Bluetooth	Yes

Interface	
RS-232	Yes (Compatible with COSEC ARGO, COSEC VEGA, COSEC PATH V2)
Wiegand	Yes

RS – 485	Yes (Compatible with ARC DC200P)
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Hardware	
Dimensions (W X H X D)	60 x 101 x 19 mm
Weight	140 gms (0.30 Lbs)
Gorilla Glass	Yes (Gorilla Glass 3)
CPU	Nordic 32 Bit
Tamper Detection	Yes
Buzzer	Yes (12V Magnetic buzzer)
LEDs	Yes (Tri Color)
Ingress Protection (IP)	Yes (IP65)
Vandal Proof (IK)	Yes (IK07)
Keypad	Yes

Environmental	
Operating Temperature	0°C to +55°C
Humidity	5% to 95 % RH Non-Condensing

Certificates
CE, FCC, ROHS, BIS

Note: Due to continuous technology upgradations, product specifications are subject to change without notice.

- Also Note:
- 1. Only Mifare and Desfire-supported combo cards will work with Mifare variants.
 - 2. Only HID I-class, Mifare & Desfire supported combo cards will work with the I-Class variants.
 - 3. NFC as Tag is only supported in read mode, Mobile/smartphone as NFC tag is not supported
 - 4. Regarding iCLASS variants, the CSN of Mifare and Prox cards can be read.
 - 5. Card Personalisation using COSEC is available for Mifare Classic 1K,4K and for HID iCLASS it is iCLASS 2k2,16k2,16k16.
 - 6. Prox Cards are now supported by ATOM RD100KI.

ABOUT MATRIX

Established in 1991, Matrix is a leader in security and telecom solutions for modern businesses and enterprises. Matrix, an innovative, technology-driven, and customer-focused organization, is committed to keeping pace with the revolutions in the security and telecom industries.

With more than 40% of its human resources dedicated to the development of new products, Matrix has launched cutting-edge products such as Unified Communications, IP-PBX, Universal Gateways, Convergence, VOIP Gateways, GSM Gateways, and IP Video Surveillance, Access Control, and Time-Attendance. These solutions are feature-rich, reliable, and conform to international standards.

Having global footprints in Europe, North America, South America, Africa and Asia through an extensive network of more than 4000 channel partners, Matrix ensures that the products serve the needs of its customers faster and longer. Matrix has gained the trust and admiration of customers representing the entire spectrum of industries. Matrix has won many national and international awards for its innovative products.



<http://www.MatrixComSec.com>

Head Office

394-GIDC, Makarpura,
Vadodara-390 010,

Ph: (+91) 265-613-7222

E-mail: Inquiry@MatrixComSec.com

Factory

19-GIDC, Waghodia,
Dist. Vadodara-391 760,
India.

Ph: (+91) 265-613-7222

MATRIX COMSEC - North America

2 Wickstead Crt,
Brampton,
Ontario, L6R 1N8.

Ph: +1 408-643-0581 (USA)

Ph: +1 437-266-1005 (Canada)