

Technical Specifications

Face-based Door Controller - COSEC ARGON FACEM

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Redefining Facial Recognition Technology



Credential Support

Human Face	Yes
PIN	Yes
Card	Mifare/Desfire/NFC Tag
BLE - Mobile	Yes
QR	Yes

Capacity

User Profiles	50,000
Face Templates	200,000
Max. Templates Per User	30
Event Logs	500,000
Minimum Lightning Condition	Minimum 30 Lux required on the User's Face

Face Recognition

Algorithm	Deep Learning based Face Recognition
Fake Face Detection	Yes

Capacity

Face Identification	1:200,000 in < 1 sec 1:1 in < 0.5 sec
Face Enrolment	Face Recognition Terminal Enrolment Station Upload Images Exception Faces

General Specifications

Dimensions (HxWxD)	186mm x 74 mm x 50mm (Wall Mount) 186mm x 74 mm x 16mm (Flush Mount)
Weight	650 g (1.433 lbs)
Display	3.5" IPS LCD (Touch Screen)
Display Resolution	480 x 320 Pixel
Gorilla Glass	Yes (Gorilla Glass 3)
OS	Embedded LINUX
CPU	Quad Core ARM Cortex-A7 @ 1.5 GHz
GPU	Built-in 2 TOPS Neural Network Computing Performance
RAM	2 GB DDR4
Flash Memory	16 GB eMMC
SD Card	No (Built-in 16GB eMMC provided)
Tamper Detection	Yes
Buzzer	Yes
IR LEDs	Yes
Ingress Protection	IP65, IK06
Certificate	CE, FCC, BIS, UL, RoHS
Operating Temperature	-10°C to 50°C (14°F to 122°F)
Storage Temperature	-20°C to 60°C
Humidity	5% to 95 % RH Non-Condensing
User Photo Display	Yes
Operational Mode	Server mode (with or without Site Controller) with the proposed on-premise/Cloud software

Camera

RGB Camera	2MP Surveillance Grade, IR Blocked
Infrared Camera	2MP Surveillance Grade, IR Band Pass
Camera Sensors	SONY IMX 307, EXMOR Technology, STARVIS Series

Communication

Ethernet	Yes (10/100 Mbps - 1 port)
PoE	Yes (IEEE 802.3 af)
WiFi	Yes (802.11 b/g/n)
3G/4G/LTE	Yes (Additional USB Modem)
BLE	Yes (Version 4.2) (8m Range)
USB	Yes (USB 2.0) Micro USB-Type B

Interface

Exit Switch Interface	Yes
External Reader Support	Yes (MATRIX and 3rd Party)
External Reader	Interface • RS232 • Wiegand Power

	12VDC @ 0.5A LED and Buzzer Control - Allowed - GREEN LED - Buzzer
Wiegand	Yes (Selectable IN/OUT) IN: 26 Bit format OUT: Configurable
Door Lock Relay	Yes (30V DC @ 2 A, Form C, DPDT Relay)
Door Lock Power	Internal PoE Power: 12VDC @ 0.250 A Internal Adapter Power: 12V DC @ 0.5 A External Power: 30V DC @ 2A

Installation

Wall Mount	Yes - Plastic Back Cover with Screws
Flush Mount	Yes - Metal Bracket with Screws

Accessories

Power Adapter	12VDC @ 2A (CE, FCC, UL, BIS)
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Note: Due to continuous technology upgradations, product specifications are subject to change without notice.

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.

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<http://www.MatrixComSec.com>

Head Office

394-GIDC, Makarpura,
Vadodara-390 010,

Factory

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

MATRIX COMSEC - North America

2 Wickstead Crt,
Brampton,

Ph: (+91) 265-613-7222
E-mail: Inquiry@MatrixComSec.com

Ph: (+91) 265-613-7222

Ontario, L6R 1N8.
Ph: +1 408-643-0581 (USA)
Ph: +1 437-266-1005 (Canada)