Proudly distributed by Cofadis

MATRIX ®
TELECOM | SECURITY

Matrix Access Control Solution
New-age Access Control Solutions for Modern Organizations

Why Matrix Access Control?

Why Access Control? Security

Material and Inventory

Portable Equipment & Machinery

Cash and Precious Metals

Data and IT

Intellectual Property: Software, Documents, Designs, Formulae, etc.

Why Access Control? Safety of People

- Field/Remote/Secluded Offices

- Sensitive Operations

- Hazardous Areas

- Break-Ins; Robberies

- Accidents, etc.

Why Access Control? Control and Response

Users: Who has Access to Defined Area

Locations: Where Location/ Premise is Accessible

Time: When to Access Specific Area

Response: How Notifications and Alerts get Triggered

Why Access Control? Productivity

Schedule Entry-Exit as per Opening/Closing Hours

Plan Manpower Availability (Who, Where and When)

Trace People and their Whereabouts (Gym, Cafeteria, etc.)

Control Occupancy

Why Access Control? Compliance

- Hazardous Area

- Process Compliance

- Security Compliance

# MATRIX COSEC ACS Introduction and Differentiators

Matrix ACS Introduction

- End-to-End Access Control Solution (Panel, Controllers, Readers, etc.)

- RFID Cards, Fingerprint, Face and Mobile as User Credentials

- Distributed Architecture on Ethernet, CAT6 and PoE+

- Simple to Deploy and Use

- Flexible Access Policies

- 25+ Access Control Features

- Web based Configuration (Server PC or Software Not Required)

- Open Integration

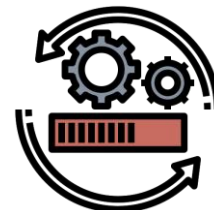# Matrix ACS Differentiators: Single-Source Solution
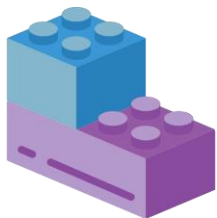
Matrix Offers All ACS Building Blocks
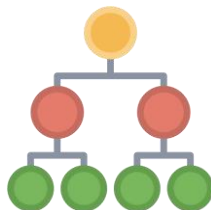
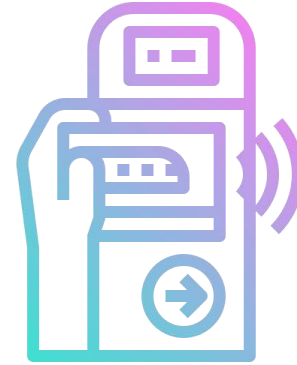Panels, Controllers, Readers, Software, Apps

Tighter Integration

Seamless Interoperation

Matrix ACS Differentiators: New-age RF Card Credentials

Proximity

Smart Card

Matrix ACS Differentiators: New-age Mobile Credentials

Mobile PIN

Mobile Face
Recognition

Mobile BLE

Mobile QR Code

Matrix ACS Differentiators: New-age Biometric Credentials

Fingerprint
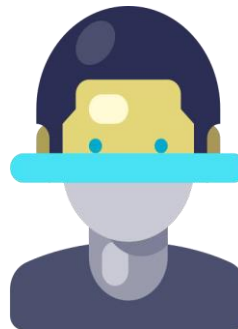
Face Recognition

Matrix ACS Differentiators: Core-to-Door IP Technology

IP Networking
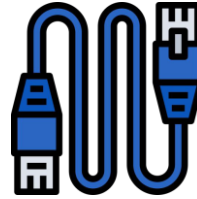
Universal CAT6 Structured Cabling

Standardization of Infrastructure and Skills

Zero Maintenance and Higher Uptime

Lower Cost

Matrix ACS Differentiators: Multiple Connectivity Options
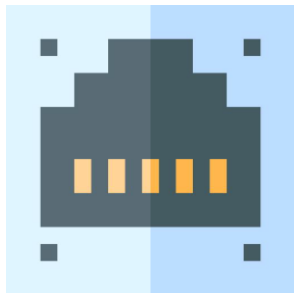
Panel to Controllers: Ethernet with PoE+ and RS-485
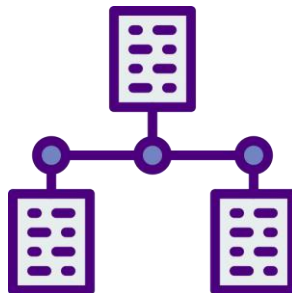
Controllers to Readers: Wiegand, RS-485 and RS-232

External Wifi, BLE or 3G/4G USB Dongle

Matrix ACS Differentiators: PoE+ Panels and Controllers

- PoE+ for Panel, Controllers, Readers and Locks

- Centralized Power Supply and UPS

- Eliminate Separate Power Supply Cabling

- Quick Installation

- Industry-Standard Infrastructure

- Lower Cost

- Lower Maintenance

- Higher Uptime

Matrix ACS Differentiators: Support for Third-Party Readers

- Industry-Standard Wiegand Interface for Third-party

  Readers

- New Installations: Flexibility to Choose Third-Party Readers

- Upgrades and Expansion: Reuse Existing Readers to

  Protect Investment

- Flexibility to Deploy Cards, Face, Fingerprint and

  Mobile Credentials

- No Need to Change Cards or Re-Enroll All Users

- Coexistence of Third-Party and Matrix Readers

- Easy Migration to Matrix ACS

WIEGAND   WIEGAND

THIRD PARTY READER ENTRY

THIRD PARTY READER EXIT

Matrix ACS Differentiators: Plug-and-Play

- Standard, Simple CAT6 Cabling

- No Need for Power Supply Cabling

- Power and UPS through PoE Switches

- No Server PC or Software Installation

- Easy Simple Web Configuration

- Auto Search Controllers and Readers

- Automatic Distribution of User Credentials

- Lower Installation Time and Cost

- Intuitive and Easy Configuration

Matrix ACS Differentiators: Encrypted Communication

SSL based
Encryption

Snoop-Proof and
Hack-Proof

Higher Security

Matrix ACS Differentiators: Events Management

- 500,000 Entry/Exit Events Log

- Events View and Download Options

- Automatic and Manual Backup Options

- Events Backup and Restore

- Backup over FTP

- Easy and Quick Analysis

- Security of Events Data

Matrix ACS Differentiators: Alerts and Notifications

- Comprehensive and Programmable Alerts and Notifications
- Entry-Exit Events
- Access Violations and Exceptions
- Device Failures, etc.
- Notifications through Emails and SMS
- Quick Response to Security Violations and Exceptions
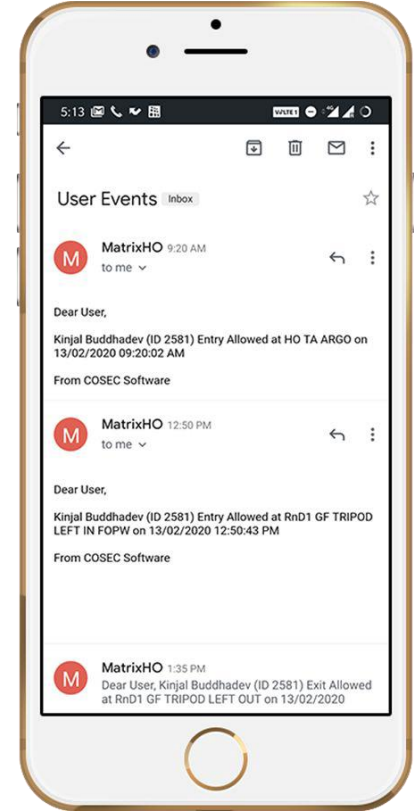
Matrix ACS Differentiators: Configuration Management

- Use Any Web Browser for System Configuration

- Configuration Backup

- Automatic and Manual Backup Options

- External Modem or Telephone/GSM Connection Not Needed

- Easy and Quick Configuration Restore

- Security of Configuration Data

- Compliance for Mission-Critical Applications

Panel Report

The COSEC system enables the user to extract a detailed listing of the configured Panel as shown in following reports.

		Matrix Comsec Pvt. Ltd.					Page 1 of 1	
		Panel						
Run by: System Admin						Date: 7/10/2013		15:06
Sr No	ID	Name	IP Address	Subnet Mask	MAC Address	Working Hrs	Break Hrs	Status
1	3	HO Panel Lite	192.168.50.202	255.255.255.0	00:1b:09:00:99:98	00:00-23:59	13:00-14:00	Active
2	4	Factory Panel	192.168.10.10	255.255.255.0	00:1b:09:aa:59:b9	00:00-23:59	13:00-14:00	Active

Matrix ACS Differentiators: IP65 Readers

- COSEC PATH RDFX: IP65

- COSEC PATH RDCX: IP65

- Suitable for All Weather

  Conditions

- Tamper Detection
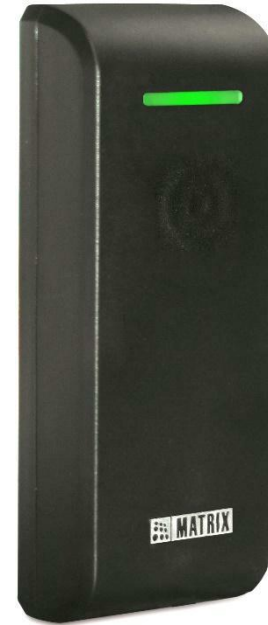
Matrix ACS Differentiators: Open System Integration

- Open API for Hardware Integration

- Integration with Fire Alarm, Video Surveillance, BMS, etc.

- Integration with Attendance, Payroll and ERP

- SNMP Support for Third-Party NMS

- Seamless Integration
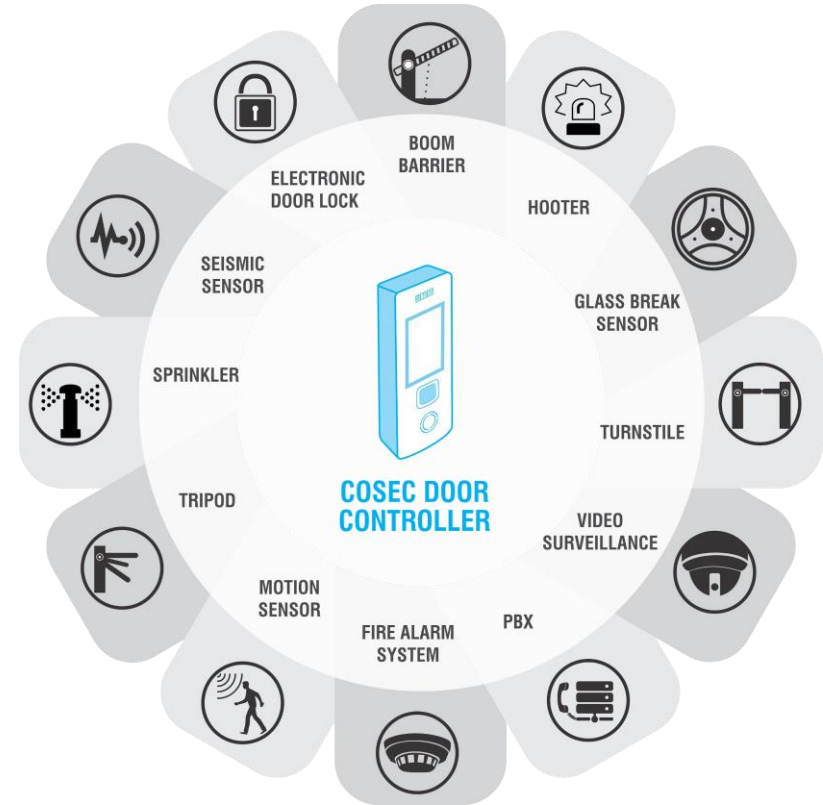
Matrix ACS Differentiators: Additional Applications

- Time-Attendance

- Access Control

- Visitor Management

- Cafeteria Management

- Job Processing & Management

- Field Visit Management

- Contract Workers Management

Storage Options

On-Premise | On-Cloud

25

Matrix ACS Differentiators: Scalability

- Panel as Site Control

- Normally, Single Panel per Site

- 1 to 255 Doors per Panel

- 1 to 25,000 Users per Panel

- COSEC CENTRA to Network Multiple Panels

- Centralized Control and Management
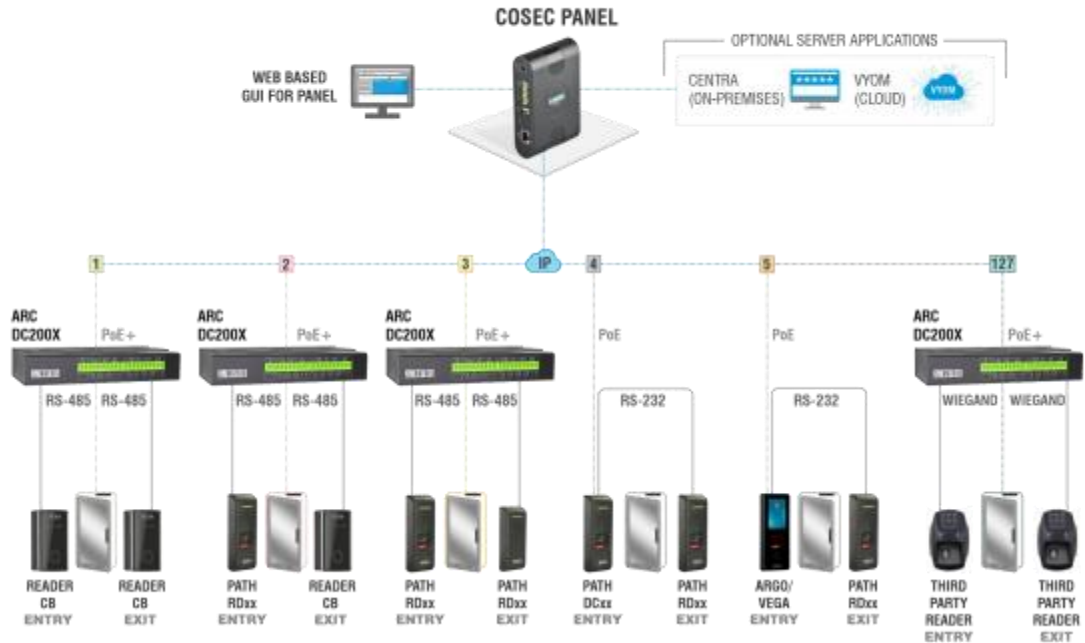
Matrix ACS Differentiators: Traditional v/s Matrix COSEC

TRADITIONAL ACCESS CONTROL	MATRIX ACCESS CONTROL
Traditional RFID Cards and PIN Credentials	Face Recognition, Fingerprint, RFID, Mobile, PIN and QR
PC and Software Installation Required	All-integrated, Self-contained Solution without Need for PC
Cabling: Bulky, Proprietary, Failure-prone and Expensive	CAT6 with PoE and PoE+
UPS and Batteries for Panels	Centralized Power and UPS
Limited Access Control Features	25+ Access Control Features

Matrix Access Control Architecture and Building Blocks

Matrix Access Control Architecture
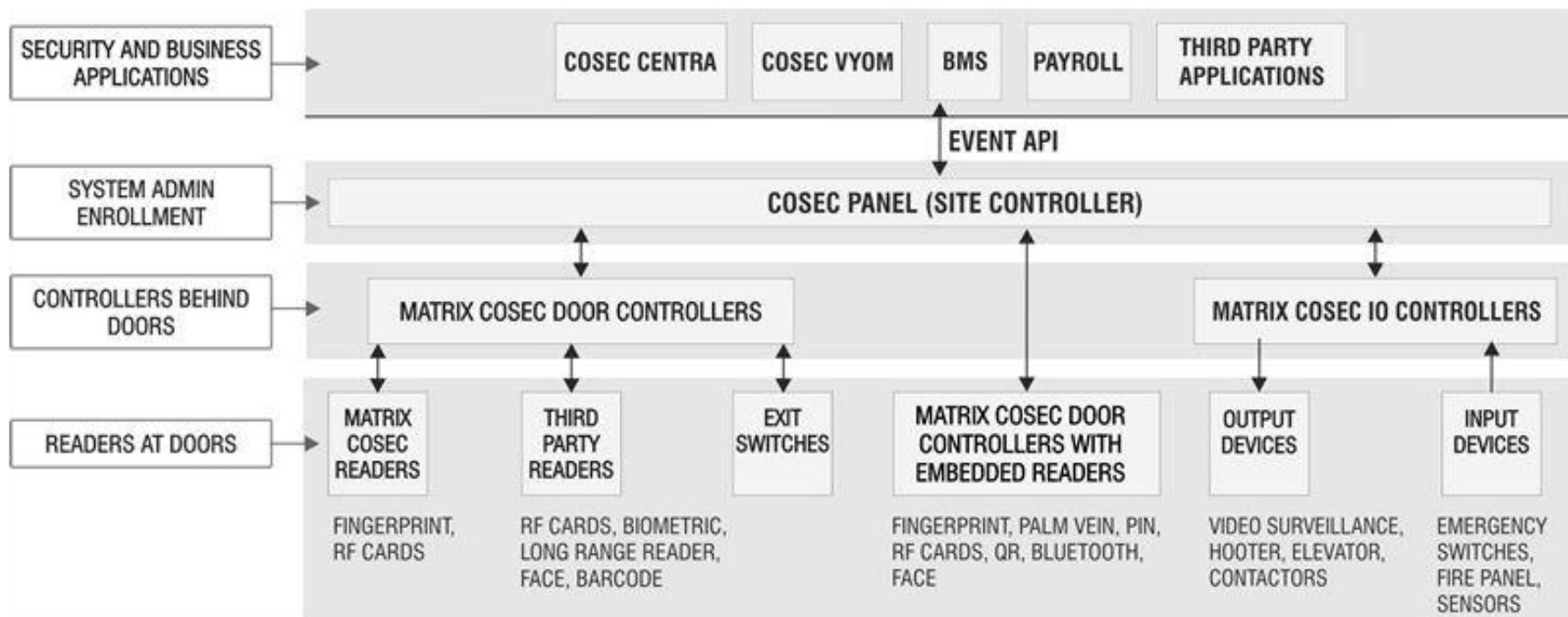
Matrix ACS Building Blocks: COSEC PANEL

- A Site Controller with Higher Capacity

- Manages Up-to 255 Doors, Up-to 25,000 Users and
  500,000 Event Buffer

- Seamless Integration with Third-party Devices

- Built-in Wi-Fi and Bluetooth
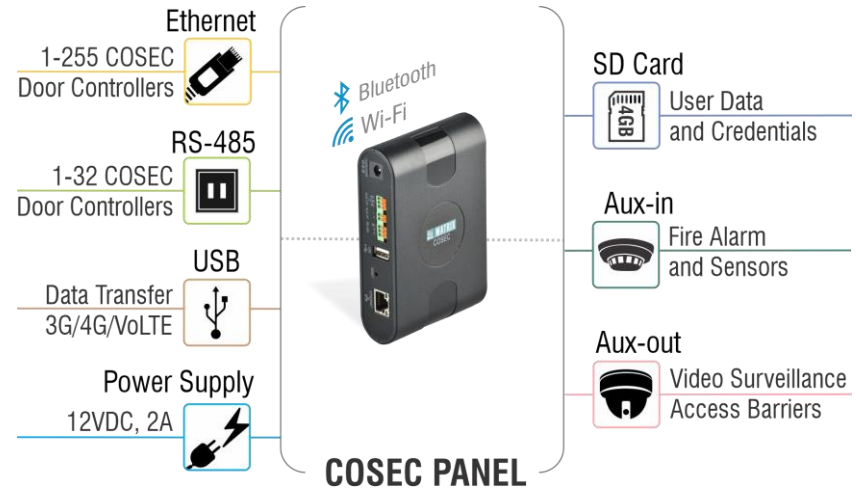
Matrix ACS Building Blocks: COSEC ARC DC200P

- Door Controller Designed on Distributed "Core-to-the-Door IP" Technology
- Higher Storage Capacity
- Secured Communication
- Built-in Wi-Fi and BLE
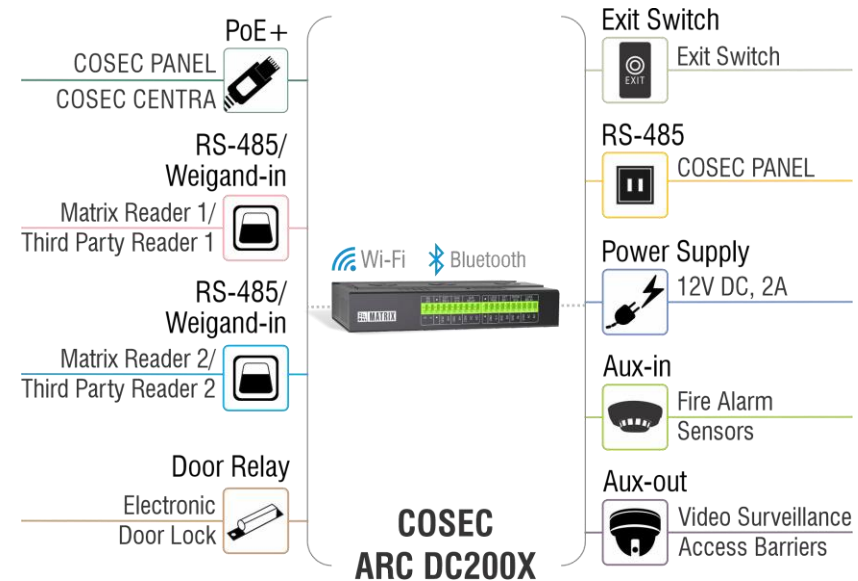
Matrix ACS Building Blocks: COSEC PATH RDFX

- Compact Fingerprint and RFID Card Reader

- Comes with IP65

- Easy to Install and Use

- RS-232 and RS-485

- Supports Proximity (EM Prox and HID Prox) and Smart (MIFARE® and HID iCLASS) Card

Matrix ACS Building Blocks: COSEC PATH RDCX

- Compact RFID Card Reader

- Comes with IP65

- Easy to Install and Use

- RS-232 and RS-485

- Supports Proximity (EM Prox) and Smart (MIFARE® and HID iCLASS) Card

33
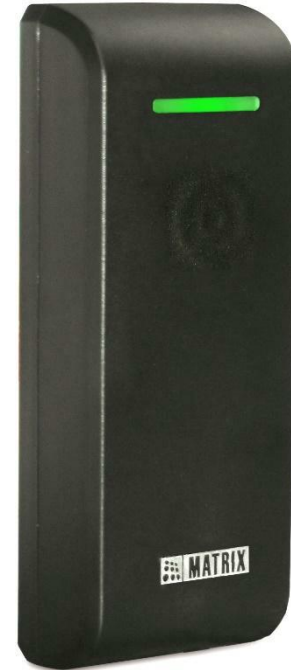
Matrix ACS Building Blocks: COSEC ATOM

- Bluetooth based Credentials
  - Your Mobile is Your Identity
  - Fast User Identification
- Multiple RFID Card Support
- PIN Support (Variant Dependent)
- Fingerprint

Matrix ACS Building Blocks: MOBILE APP ACS

- Perfect for Bluetooth based Access Control through Mobile

- Access by Shaking Mobile in the Range of Bluetooth Enabled Devices

- Your Mobile is Your Identity

- Use Your Phone Instead of Smart Card

- Android Version 5.0 and above

- iOS 9.0 and above

Matrix ACS Building Blocks: COSEC ARC IO800

- Compact Input-Output Controller

- Elevator/Floor Access Control

- Seamless Integration with Third-party Devices such as Fire Alarm Bell, Motion Detector, EM Locks etc

- Door Interlocking Solution
  (Standalone Mode)

RS-485

Ethernet with PoE

Power Supply

8 AUX In Ports

8 AUX Out Ports

Matrix ACS Building Blocks: COSEC CENTRA/VYOM

- *COSEC CENTRA*: On-Premise, Single-Tenant Server Application
- *COSEC VYOM*: Cloud, Multi-Tenant Server Application
- Seamless Integration with Third-party Devices and Application/Payroll System

Matrix ACS DEPLOYMENT: TWO-WAY ACCESS

- Allows Entry and Exit Only to Authorized Users

- Requires Two Readers for Every Door

- One to Control Entry and the Second to Control Exit
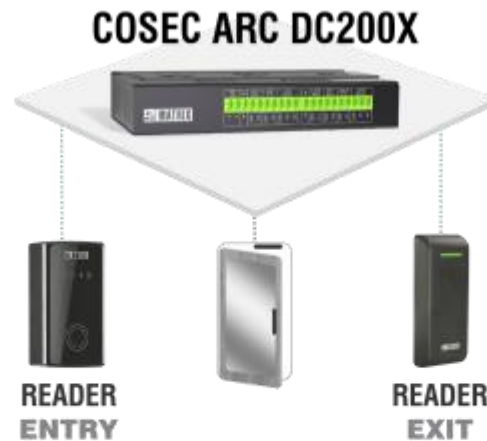
COSEC ARC DC200X

READER ENTRY

READER EXIT

CONNECTIVITY OPTIONS FOR READERS:
- COSEC READER - RS-232/RS-485
- THIRD-PARTY READER - WIEGAND

Matrix ACS DEPLOYMENT: ONE-WAY ACCESS

- Entry to Only Authorized Users

- Allows Everyone to Exit

- Requires a COSEC Reader at the Entrance
  and a Push-Button Switch at the Exit

COSEC ARC DC200X

READER ENTRY   EXIT SWITCH EXIT   READER ENTRY   EXIT SWITCH EXIT

CONNECTIVITY OPTIONS FOR READERS:
- **COSEC READER** - RS-232/RS-485
- **THIRD-PARTY READER** - WIEGAND

Matrix ACS Certifications

ISO
9001-20001-27001

CE

FCC

RoHS
COMPLIANT

UL

MATRIX ACS FEATURES

MATRIX ACS Features: Access Zones, Access Modes etc.

Zone Specific Access: User can enter only designated zones

Access Mode: Control entry with a single or a combination of user credentials

Access Level: Allow or restrict users based on their roles or levels

VIP Access: A user with VIP access can enter any controlled area

MATRIX ACS Features: First-in User Rule, Access Mode etc.

First-in User Rule: Normal users are allowed only after the designated first-in user has entered

Access Mode: Stops one individual to enter high-security area alone. Allows two people (from a predefined group) together if they enter within specified duration

Guard Tour: Requires security guards to show their credentials at sequential check posts at specified time periods

Centralized Monitoring and Control: Live status of all the controllers, alarms, input-output ports at one place. Also, control doors, alarms and user credentials from a central location

MATRIX ACS Features: Dead-man Zone, Access Route etc.

Dead-man Zone: Registers user's presence periodically to confirm the user is present and active. Ensures safety of an employee working in a hazardous environment

Anti-passback with Local/Global and Soft/Hard Options: Prevents second entry for a user until the user has exited to eliminate multiple entries using one user's credentials

Do Not Disturb (DND) Zone: Stops anyone entering a Do Not Disturb zone. Useful for private offices, meeting-conference rooms

Access Route: Forces users to follow predefined path to reach their destination. Prevents loitering or jaywalking

44

MATRIX ACS Features: Occupancy Control, Smart Identification etc.

Occupancy Control: Control the number of users allowed to enter a zone

Smart Identification: Stores users' credentials on the smart card (RF). COSEC first reads the user's credentials from the card and then prompts the user to show credentials

Blocked User: Suspend a user's access rights for a defined period

MATRIX ACS Features: Who's-In, Smart Identification etc.

Time Stamping: Trigger video surveillance to take a snapshot of the person while accessing a door. Generate reports with such photographs

Who's-In: Allows security or admin to determine the users present inside a zone or building
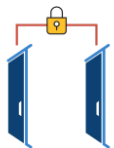
Input-Output Linking: COSEC supports an additional layer of automated security by activating a designated output port or sending a notification when triggered by a pre-configured input or an event

MATRIX ACS Features: Mantrap, Door Interlocking etc.

Mantrap: Many applications require arranging two or more doors in a proximity sequence to prevent direct air passage. The second door opens only after the first door has completely closed

Door Interlocking: COSEC offers user-programmable flexible interlocking logic for multiple doors to meet complex, industry-specific needs such as R&D, pharma labs, semiconductor foundries, chemical plants, etc

Elevator Access Control: COSEC supports an additional layer of automated security by activating a designated output port or sending a notification when triggered by a pre-configured input or an event

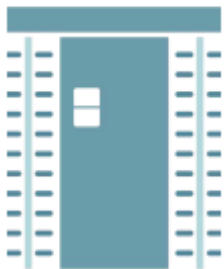# MATRIX ACS: Doors, Locks and Barriers
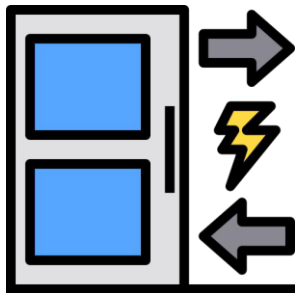
Sliding Doors

(EM) Magnetic Locks,

Electric Strikes ,

Bolt Locks,

Electric Cylindrical Locks

Server Rack Cabinet Locks
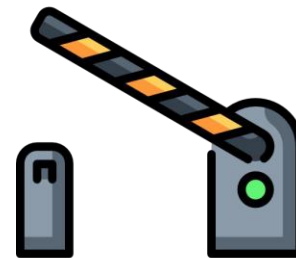
Speed gates, Flap Barrier, Swing Panels

MATRIX ACS: Doors, Locks and Barriers

Glass Pass
Turnstile

Tripod Turnstile

Boom Barrier

Matrix Access Control: Ordering Information

Ordering Information: COSEC ACS Kits

Sr No	Product Variants	Description	PANEL 200P	ARC DC200P	ATOM RD100M	PATH RDFM
1	ACS2DCM	2-Door Card based One Way ACS	1	1	2	
2	ACS4DCM	4-Door Card based One Way ACS	1	2	4	
3	ACS8DCM	8-Door Card based One Way ACS	1	4	8	
4	ACS2DFP	2-Door Fingerprint and Card based One Way ACS	1	1		2
5	ACS4DFP	4-Door Fingerprint and Card based One Way ACS	1	2		4
6	ACS8DFP	8-Door Fingerprint and Card based One Way ACS	1	4		8

MIFARE ® and MIFARE Classic ® are trademarks of NXP B.V.

Ordering Information: Building Blocks

Sr. No.	Product Name	Description
1	COSEC PANEL200P	One Site Controller for Every Building or Location up to 255 Doors
2	COSEC ARC DC200P	One Controller For Every 2 Readers
3	COSEC ARC IO800	A Compact Input-Output Controller
4	COSEC ARGO	Door Controller with Built-in Fingerprint Reader and Card Readers with PoE, Wi-Fi, Bluetooth
5	COSEC VEGA XXX	Door Controller with Built-in Fingerprint Reader and Card Readers with PoE, Wi-Fi, Bluetooth
6	COSEC PATH DCXX	Door Controller with Fingerprint and RF Card Support
7	COSEC PATH RDXX	Reader with Fingerprint and RF Card Support
8	COSEC ATOM	Contactless Reader with Bluetooth Credentials & Card Credentials

Who We Are

1M+
Customers

4K+
Partners

50+
Countries

24*7
Support

40+
Awards

Stay Tuned & Subscribe

@Matrix Comsec

MatrixComSec

@Matrix_ComSec

@MatrixComSec

Matrix_Comsec

THANK YOU!

www.cofadis.com