



### GENERAL

Credential Support	Palm Vein, RFID Card and PIN
RF Option	Proximity (EM Prox and HID Prox) and Smart Cards (Mifare, NFC Tag and HID iCLASS) (COSEC CPM Module Required)

### CAPACITY

Max. Users	10,000
Max. Template Storage	20,000
Event Buffer	100,000
Templates per User	Up to 10 Templates (Multi-Palm)
Cards per User	Up to 2
Palms per User	Up to 2

### COMMUNICATION

Wi-Fi	Yes (802.11 b/g/n)
Ethernet	Yes (10/100 Mbps)
RS-232	Yes
Mobile Broadband	Yes
Wiegand	Wiegand IN, Wiegand OUT Available
USB	2 USB Port (Data Transfer and Broadband Dongle)

### INTERFACE

Exit Switch	Yes
Door Status Sense	Programmable NO, NC, Supervised
Door Lock Relay	30V DC @ 1 A, Form C, SPDT Relay
Door Lock Power	Internal 12 VDC @ 0.5A or External
Aux-In	Programmable NO, NC, Supervised
Aux-Out	30V DC @1 A, Form C, SPDT Relay
Reader Interface Types	RS-232, and Wiegand IN/OUT

### HARDWARE

CPU	1 GHz ARM Cortex A8 Based Processor
Memory	256 MB Flash + 512 MB DDR3 RAM
Display	128 x 64 Dot Matrix Display

Display Size	38.1mm x 60.96mm (1.5" x 2.4")
LED	4 LED (Status, Alarm, Allowed, Denied)
Buzzer	Yes
Keypad	16 Touch Sense Keys
Operating Temperature	0°C to +45°C (32°F to 113°F)
Humidity	5% to 85% RH Non - Condensing
Tamper Detection	Yes
Power	12V DC @ 2A
Power to Door Lock	12V DC @ 0.5A (Power to Lock from COSEC DOOR PVR) 30V DC @1 A (Power to lock from External Adaptor)
Dimensions (W x H x D)	100mm x 220mm x 56mm (3.93"x 8.66"x 2.20")
Weight	0.65 Kgs (1.43 lbs.)

### CERTIFICATES

CE, FCC, RoHS, IEC, BIS

### COMPATIBILITY

System Integration	API for Software Integration
Operational Modes	Direct Door with COSEC CENTRA Server Panel Door with COSEC PANEL LITE V2

### SENSOR

Sensor Name	Fujitsu Palm Vein Sensor
Sensor Technology	Reading by Near- Infrared Light
Encryption	AES Encryption (Cryptography > 128 Bit)
Drip-proof	Yes
Capturing Distance	40 to 60 mm (1.5" to 2.3")
False Acceptance Ratio (FAR)	0.00008%
False Rejection Ratio (FRR)	0.01%
Scope of Capture	Entire Palm
Template Size	3 KB
Dimension (W x H x D)	35mm x 27mm x 35mm (1.3" x 1.0" x 1.3")

### HAND GUIDE SPECIFICATIONS

Hand Guide	External with Sensor
Operating Voltage	Feed from Door Controller through USB
Interface	USB 2.0 High Speed/Full Speed, Plug & Play
Operating Temperature	0°C to +45°C (32°F to 113°F)
Humidity	5% to 95% RH Non-Condensing
Dimensions (W x H x D)	130.2mm x 170mm x 108.3mm (5.12" x 6.69" x 4.26")
Weight	0.26 Kgs (0.57 Lbs)

### APPLICATIONS

Access Control  
 Time-Attendance  
 Contract Workers' Management  
 Job Processing and Costing

*\*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 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, IP Video Surveillance, Access Control and Time-Attendance. These solutions are feature-rich, reliable and conform to the international standards. Having global footprints in Europe, North America, South America, Africa and Asia through an extensive network of more than 1000 system integrators, Matrix ensures that the products serve the needs of its customers faster and longer. Matrix has gained trust and admiration of customers representing the entire spectrum of industries. Matrix has won many national and international awards for its innovative products.

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