### GENERAL
- **Credential Support**: Palm Vein, RFID Card and PIN, 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 12V DC @ 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”)

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**COSEC DOOR PVR**
Palm Vein based Door Controller
**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)

**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.)

### 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

**Sensing Area**  
16.0mm x 19.0mm

**Template Size**  
3 KB

**Dimension (W x H x D)**  
35mm x 27mm x 35mm (1.3” x 1.0” x 1.3”)

### 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 keep 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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