

SAVIOR FINGERPRINT ACCESS & ATTENDANCE READER



Inbuilt Ethernet + USB Host

- ▶ SAVIOR 8603
- ▶ SAVIOR 8604
- ▶ SAVIOR 8605



Inbuilt GPRS + Ethernet + USB Host

- ▶ SAVIOR 8703
- ▶ SAVIOR 8704
- ▶ SAVIOR 8705



USB Pen Drive*

* additional equipment required based on application
1:N Enrollment at Reader Level limited to 500 Users

Does your Access & Attendance System have the Capability

- ▶ To select Enrollment method, employee wise?
 - At reader level for both 1:1 & 1:N*
 - At Computer level for both 1:1 & 1:N*
- ▶ To synchronize 1:N Fingerprint Data base between reader & computer database, avoiding multiple enrollment and hence saving operator / employee time?
 - Enroll finger on any reader, transfer to computer database and deploy also, to all other readers.
 - Enroll finger on computer and deploy to all readers.*
- ▶ To work even in remote locations without computer?
 - Pen Drive data transfer.
 - GPRS data transfer and fingerprint template deployment.
- ▶ To choose verification & Identification method employee wise?
 - 1:1 (with Smart Card)
 - 1:N (without card & without Key entry).
 - Only Smart Card
- ▶ To get hard copy Printout at same instant with additional Printer attached?
- ▶ To verify whether the employee Fingerprint enrolled is already enrolled in some other name in the database, using additional Licenses?
- ▶ To positively identify the person who is taking the benefit (Cash from Cashier, Material from Store etc.) using the Fingerprint enrolled, using additional Licenses?



USB Keyboard*



USB Printer*

SAVIOR has all the above Capabilities and More !!

Common Technical Specifications for SAVIOR Fingerprint 86xx & 87xx Series

FINGERPRINT Related Specifications

- Fingerprint Sensor Type - Thin Optical Sensor
- Fingerprint Resolution - 500 dpi @ 8bit per pixel
- Fingerprint sensor acquisition area - 14mm x 22mm
- Identification time less than 2 Secs for 90% cases.
- False Acceptance Rate (FAR) - Tuneable from Level 3 to 5 from SAVIOR Enrollment & Template Management Software Ver. 2.0
- False Rejection Rate (FRR) - Value dependant on FAR Setting and also kind of population. FRR is better with people who perform limited manual labour and have good quality fingerprints than with hard manual labour with damaged fingerprints.
- Reader prompts the user to MOVE UP, DOWN, PUT YOUR FINGER PROPERLY, when Finger is placed on Fingerprint Sensor. This reduces chances of finger being rejected.

READER MEMORY Related Specifications

- Data Memory for Transaction : 8 MB Flash.
- Transaction Memory : 1,30,000 Records
- For 1:N Record consists of User ID, Date, Time, Error Code, Transfer Flag
- For 1:1 Record consists of Card No., UID, Date, Time, Reason Card, Error Code, Transfer Flag.

Common Application Specification for 1:1 & 1:N (without Smart Card)

- Positive User Masking Master - 2000 User ID.
- Negative User Masking Master - 1000 User ID.
- Call Back Masking Master - 40 User ID with individual message.
- Suspend Masking Master - 50 User ID.
- Reason Card Supported : For Single (OD, Leave etc.) and Group Reasons (Bus Late, etc.)

1:1 Smart Card Application Specification

- Personalization Master - 100 Card Data (Name, Date of Birth, Card No., Flag for Finger bypass). Data changed at next show of card.
- Finger Bypass option at individual User Level.
- Greets card holder on Birthday (if date coded in card)
- Storage of unique ID Number (SNR / UID No.)

Verification (1:1) & Identification (1:N) Related Specifications

Models	1:1 Verification (Requires Contactless Smart Card based Identity Card for Verification)	1:N Identification
8603	Unlimited Users	500 users 2 Fingers each
8604	Unlimited Users	3000 users 2 Fingers each
8605	Unlimited Users	5000 users 2 Fingers each
8703	Unlimited Users	500 users 2 Fingers each
8704	Unlimited Users	3000 users 2 Fingers each
8705	Unlimited Users	5000 users 2 Fingers each

DISPLAY / AUDIO Related Specifications

- Display - LCD (16 characters x 2 rows) Alphanumeric
- LCD Displays DD-MON-YYYY, day of week and H24:MM:SS time format.
- LCD Displays Reader IP Address and MAC Address at Power On.
- LCD Displays employee name in English if name coded in the card.
- Audio / Visual confirmation of card reading.

POWER SUPPLY Related Specifications

- Operating Voltage: DC 12V.
- Power 86xx - 3.3 Watts, Power 87xx - 4.0 Watts.
- Power supply and Connection Box at extra cost based on Application. See Power Supply and Connection Box Section.

HARDWARE Related Specifications

- Processor : 32 Bit ARM RISC
- RTC : Leap year programed

COMMUNICATION Related Specifications

Models	RS232	Ethernet (TCP/IP)	USB Host	GPRS
8603	✓	✓	✓	✗
8604	✓	✓	✓	✗
8605	✓	✓	✓	✗
8703	✓	✓	✓	✓
8704	✓	✓	✓	✓
8705	✓	✓	✓	✓

- Ethernet Detection at Reader Level
- TCP/IP Server/Client Mode
- Standard RS232 Communication Baud Rate : 57600bps-N-8-1.
- Standard RS232 Communication limited to 15 meters.

LOCK, TRIPOD, GATE Interface Related Specifications

- Door Access Time- configurable from 0.5 to 10 secs, in steps of 0.5 secs through SAVIOR Communication Software Ver. 9.1
- Optional - Continuous Beep (if sensor supports) : In case Door opened forcefully or kept open for more than four seconds.
- Optional- Emergency Fire Exit Option at Computer Level to Open all / Specific Doors through Communication Software Ver 8.3.
- Application and hardware Electronic Interface for Electromagnetic (EM) Locks available in SAVIOR Power Supply and Connection Box.
- Application Interface to Tripod, Gate, Turnstile, Electric Strike, Pivot Barriers, Vending Machine, Revolving Door available at free of cost. Hardware Electronic Interface to these equipment at extra cost.

USB Host External Devices Support - Specifications (Optional Items)

- USB Pen Drive - Format FAT 16. Max. Storage size - 4 GB
- USB Pen Drive will be activated with USB Data Transfer Master Card (if allowed by Communication Software).
- USB Keyboard - PC compatible.
- USB Printer- USB ESC/POS Printer. If allowed by Communication Software.

GPRS Related Specifications

- GPRS Model has 1 SIM (GSM) Slot inbuilt.
- LCD Displays Signal strength of GPRS / GSM.
- LCD Displays Reader IP Address, Public Static IP Address, APN and MAC Address at Power On.

SMART CARD Related Specifications

- Technology - Mifare / ISO 14443 Type A
- Reading Distance - upto 50 mm
- Operation type - Read / Write Reader
- Cards Supported - 1 KB.
- Optional Card Support - 4 KB Desfire
- 8 Digit Alphanumeric User ID.
- 16 Character User Name.

GENERAL SPECIFICATION

- Operating Temperature : - 05°C ~ 50°C
- Relative Humidity : 20% ~ 95% (Non Condensing)
- Dimensions : 167 mm (L) x 113 mm (W) x 50mm (D) excludes Antenna
- Weight of Reader : 86xx - 440 gms, 87xx - 460 gms
- Enclosure : HR (Heat Resistant) & FR (Fire Retardant) Grade ABS

Manufactured by:



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BS EN ISO 9001:2008
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