



*Complete & Customized Solution for  
Attendance & Access Control*

*User Capacity 15,000  
2GB SD Memory Card  
ARM9 MCU @ 200MHz  
Voice Guided Messages*

*Smart Card Reader*

*Proximity Card Reader*

*Finger Print Reader*

*Mailing, Time Synchronization*

*Client / Server Mode*

*Camera, GPRS, Web Based*



**BIO TRACK**

**World Class Readers**

[www.starlinkindia.com](http://www.starlinkindia.com)



## BIO TRACK

<b>Processor</b>	ARM 9 MCU @ 200MHz
<b>Memory Transaction</b>	2 GB SD Memory Card almost unlimited records Storage
<b>User Capacity</b>	15,000 (10,000 Finger + Card / Pin) only Finger limit upto 2000 template
<b>Display</b>	TFT 3.2" 320x240 Graphics Display (48.20mm x 64.80mm)
<b>Identification Time</b>	Less than 1 Sec
<b>USB Port</b>	Support USB Pen drive for data transfer
<b>Card Type</b>	Contact less EM 4100 Card (Proximity) / MIFARE (ISO / IEC 14443 A)
<b>Read Range / Frequency</b>	EM Card up to 120mm / 125 KHz / MIFARE up to 60 mm / 13.56 MHz
<b>Communication Method</b>	Serial RS232, Ethernet TCP / IP Protocol, GPRS - GSM / CDMA
<b>Baud Rate (Selectable)</b>	(2400-115200) bps, TCP / IP Ethernet 10/100 Mbps
<b>Operating Temperature</b>	0 to 50 degree Celsius
<b>Operating Humidity</b>	10 to 90% Non-condensing
<b>Charger Specification</b>	DC 1.4V, 1A Through Adapter
<b>Battery Backup</b>	8 Hours Standby (actual time will vary on device uses)
<b>Keypad</b>	Touch Screen and Joystick
<b>Dimension / Weight</b>	L:80mm H:193mm W:53mm / 460 gram
<b>Visual Indicator</b>	Red / Green Colour on Display / Message on LCD in English
<b>Audio Indicators</b>	Voice Guided message (Adjustable volume). Other Language voice message & Customize voice greetings (Optional at extra cost)
<b>Mailling</b>	It supports SMTP & SSL Protocol
<b>Time Synchronisation</b>	Time Synchronization (NTP) automatically from the server.
<b>Client / Server Mode</b>	In client mode machine connect to the server. In server mode machine accept the TCP/IP connection from computer.
<b>Camera</b>	Inbuilt colour VGA (Camera take photo while punching.) Selectable Image Size: 640x480, 320x240, 160x120 pixels.
<b>GPRS</b>	Easy to connect GPRS terminal (GSM or CDMA).
<b>Web Based</b>	Various machine configuration can be done web interface with password protect.
<b>Uses Scope</b>	Hand Held for mobile attendance or any other authenticated transaction. Wall mounted attendance or access control with EM local support. Slave reader or Exit switch for exit.

## FEATURE

### FINGER SCANNER

- Dedicated 400MHz DSP 2 Mbyte RAM
- Sensor Technology: Optical CMOS
- Sensing Area: 18.0mm x 19.0mm
- Image Size (Pixels): 372 x 320
- Image Resolution: 300 dpi
- Finger Verification Option: 1:N (Only Finger)
- Finger Template Size: 384 bytes.
- FER < 0.1%
- FAR / FRR : 0.01% / 0.001%
- Enrollment Time: 1~1.5 Sec
- Verifications < 0.8 Sec
- Identification Time: 1~1.5 Sec
- Finger Print storage: 10,000



### OPERATIONAL MODE

1. Only Finger (upto 2000 only)
2. Only Card (MIFARE / Proximity)
3. Card with Password
4. Card with Finger
5. PIN with Password
6. Only PIN (Personnel Identification Number)
7. PIN with Finger

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Due to continuous product development, the design & specification are subject to change without prior notice.