



## *Complete Solution for Attendance & Access Control*

**SMART CARD READER**

**PROXIMITY CARD READER**

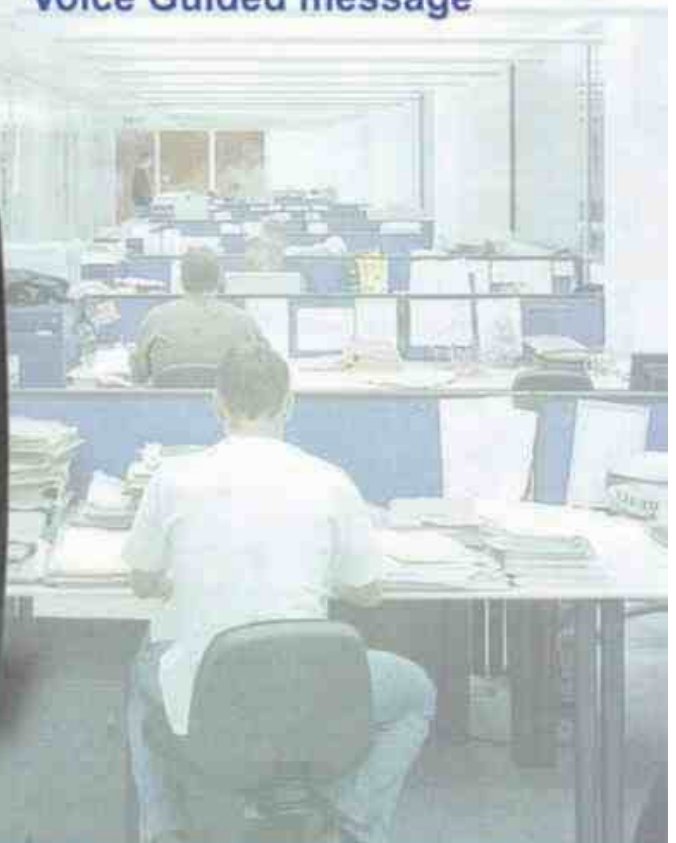
**FINGER PRINT READER**

**User Capacity 10,000**

**2GB SD Memory Card**

**32 Bit RISC MCU @ 70MHz**

**Voice Guided message**



**Indian Readers with International Features**

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

# BIO STAR - 09

Processor	32 Bit RISC MCU @ 70MHz
Memory Transaction	2GB SD Memory Card almost unlimited records Storage
User Capacity	10,000 (10,000 Finger + Card / Pin) only finger limit upto 1600 template
Display	LCD 128x64 STN / YELLOW Graphics Display ( 70.70 mm X 38.80 mm )
Identification Time	Less than 1 Sec
USB Port	Support USB Pen drive for data transfer
Card Type	Contact less EM 4100 Card (Proximity) / MIFARE (ISO / IEC 14443 A)
Read Range / Frequency	EM Card up to 120mm / 125 KHz / MIFARE up to 60 mm / 13.56 MHz
Communication Method	Serial RS232, Ethernet RJ45 TCP / IP Protocol
Baud Rate (Selectable)	( 2400 -115200) bps, TCP / IP Ethernet 10/100 Mbps
Operating Temperature	0 to 50 degree celsius
Operating Humidity	10 to 90% Non-condensing
Operating Voltage	DC 12V, 1 A Through Adapter (Battery Backup Optinal at extra cost)
Keypad	16 Key (4x4)
Dimension / Weight	L:182mm H:155mm W:45mm / 500 grms.
Visual Indicator	Red/ Green LED / Message on LCD in English / Other language (Optional at extra cost)
Audio Indicator	Voice Guided message (Adjustable volume). Other language voice message & Customize voice greetings (Optional at extra cost)

## FINGER SCANNER

- Dedicated 400MHz DSP 2 Mbyte RAM
- Sensor technology: Optical CMOS
- Sensing area: 16.0 mm x 19.0mm
- Image size (pixels): 272 x 320
- Image resolution: 500 dpi
- Finger Verification Option: 1:N ( Only Finger)
- Finger Template Size: 384 bytes.
- EER < 0.1%
- 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 1600 only)
2. Only Card (MIFARE/ Proximity)
3. Card with password
4. Card with Finger
5. PIN with password
6. Only PIN (Personnel Identification Number)

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