

Applications

- Access Control
- Time-Attendance
- Canteen Management
- Banking & Finance
- Resource & Manpower Management
- School Bus Management & Tracking
- Insurance Claim Processing
- eKYC



Features



STQC L1 & FBI PIV Certified
Fingerprint Scanner



13.56 Mhz Contactless
Smart Card Reader



Auto Sleep & Wakeup
to Save the Battery Power



Optimized Thermal
Management



4000 mAh Battery Backup



5MP AF Camera
with Flash LED



Ethernet / LAN Connectivity



Android Operating System



micro SD Card Slot Supporting
up to 32GB Storage



Barcode Reader
with Camera



Scratch Free Sensor Surface



MINEX Compliance Extractor



Auto Finger Detection

L1 AADHAAR ENABLED BIOMETRIC ATTENDANCE SYSTEM

MBAS20

With the aid of an advanced biometric algorithm and PIV/STQC L1 certified FAP10 scratch-free optical biometric fingerprint sensor, Mantra's 7" L1 AEBAS Device MBAS20 is created to meet the need for precise individual identification for various applications like eKYC, access control, and time attendance.

The MBAS20 can be used as a wall-mounted device for access control and time-attendance applications. The device's capacitive scratch-resistant touch screen with 6H toughened glass, and optimized thermal management makes it very robust. The latest biometric technology is used by MBAS20 to authenticate and identify users using their own fingerprint impressions. With built-in 4G, Ethernet, wireless, & GPS, the device displays increased connectivity, along with the 4,000 mAh battery with auto sleep & wakeup functionality increases battery backup.



At a Glance

Hardware & System

| Parameters | Specification |
|---------------------------------|---|
| CPU | : ARM Cortex A53 @ 1.5GHz Quad Core Processor |
| Memory | : 2GB RAM + 16GB Flash |
| LCD | : 7" TFT LCD with 1024x600 Resolution |
| Touch | : Scratch Resistant Multi-Point Capacitive Touch Screen with 6H Toughen Glass |
| Operating System | : Android 10 |
| Front Camera | : 2MP Fixed Focus |
| Back Camera | : 5MP Auto Focus Camera with Flash LED |
| LED Indicators | : Power On/Off, Battery Charging Status |
| Audio | : High-Quality 1W Speaker for Announcements |
| RTC | : Yes |
| Object Detection sensor | : IR based Proximity sensor for device auto sleep & Wakeup |
| Control Buttons | : 1x Power On/Off, 1x Reset Key |
| Operating / Storage Temperature | : 0 Deg - 50 Deg C |
| Operating Humidity | : 10%-90% RH (Non-Condensing) |
| Dimensions | : 221 x 181 x 48 mm |
| Weight | : Approx 0.8Kg |
| Certifications | : CE, RoHS, BIS, IP54 |

Fingerprint Sensor

| Parameters | Specification |
|-------------------|--|
| Fingerprint Type | : Scratch Free Optical FAP10 L1 Sensor |
| Fingerprint Image | : 276 x 336 Pixels |
| Image Specs | : 500 DPI +/- 2%, 256 (8 - Bit Gray Level) |
| Certifications | : CE, FCC Part 15B, RoHS, STQC L1, FBI PIV, EN/IEC 62368-1, IS13252 Part I |

L1 AADHAAR ENABLED BIOMETRIC ATTENDANCE SYSTEM MBAS20



Smart Card Reader

| Parameters | Specification |
|-----------------------------|---|
| Contactless Card (Optional) | : ISO14443 Type A/B Cards, MIFARE Clasic 1K/2K/4K, MIFARE DESFire Light 1K, MIFARE DESFire EV1/EV2 4K, MIFARE Plus S 2K, NTAG |

Interfaces

| Parameters | Specification |
|--------------------|---|
| 4G/3G/GPRS | : 2G (850/900/1800/1900), 3G (B1/B2/B5/B8), 4G (B1/B3/B5/B7/B8/B38/B40/B41) |
| Wi-Fi | : IEEE 802.11 a/b/g/n (2.5GHz & 5.0 Ghz) |
| Ethernet | : 10/100 Mbps |
| SD Card | : MicroSD Card (Supports up to 32GB) |
| Bluetooth | : BT + BLE 4.2 |
| GPS | : 16 Channel NMEA Compliant with Flex Antenna, AGPS Supported |
| SIM Socket | : 1 x SIM Socket |
| DC Jack | : 1 x DC Power Input |
| Micro USB | : 1 Micro USB Port for PC Connection as debug port |
| RS-485 (Optional) | : 1 Host or Slave (Selectable) |
| Wiegand (Optional) | : 1 Input (26-Bit) |
| GPIO (Optional) | : 5V TTL 1 x Output, 1 x Input |
| Relay (Optional) | : 5V/3A Relay with Non-Potential Contacts (NC, NO, COM as Output) |
| USB 2.0 (Optional) | : USB2.0 Type A (for pendrive connection) |

Electrical

| Parameters | Specification |
|---------------|--|
| Power Adaptor | : Input AC: 90~265V, 50Hz ; Output DC: 12V/2.0A |
| Battery Pack | : Li-Ion 4000 mAH Rechargeable & Replaceable Battery |