Finger ID based Attendance & Access Control System

FORTUNA

MicroBEN Bio

Time & Attendance is made easy & manageable with irrefutable personal Identification using "Touch-n-Go" Biometric Finger Print Technology.

There is no need of ID cards, with real time Finger identification in 1:N Mode. MicroBEN Bio is self contained device with FVC 2004 & FVC 2006 Award Winning Finger Print Sensor to enroll & store the Finger record, Identify users, save event logs and provides interface with Computer for generating MIS Attendance Reports & data required for Payroll Calculation.

A HID Proximity/iClass or MIFARE Smart Card/ EM Proximity Reader may be integrated inside. The Finger Print template can be stored on iClass / MIFARE Card.

MicroBEN_Bio provides superior speed & most importantly eliminates Buddy/Proxy Punching. The Finger Parking angle & guide is perfectly engineered to ensure impeccable finger scanning.

Only authorized personnel are allowed access to the protected area or to Clock IN/OUT. With Finger Print Module, Key Pad & a RF based Reader (optional), it gives the operator a choice of access modes in any combination of Fingerprint, Card & PIN entries.

Operation

- Finger Print enrollment using MicroBEN_Bio is done once in the built-in memory.
- User places their enrolled finger on the finger sensor for clocking IN/OUT.
- The MicroBEN compares live finger with the finger stored in built-in memory and then stores Attendance data only upon "MATCH".
- LCD displays Employee Name and "Granted" message upon authentication (with Date & Time).
- Optional : The Proximity Card is shown on the reader. If the card is Valid, user is prompted to put the finger on fingerprint reader.
- User Friendly reports can be generated by Time Pro Software, a high end Attendance Analysis software (optional).

Communication

Networking of MicroBEN's can be accomplished via the RS232C/RS485 or Ethernet (LAN/WAN/WiFi) or dial up modem communication (using suitable External Hardware). The attendance data can be pushed from anywherein the world, in online mode using Broad Band to a Server. GPRS may also be used as medium for data communication.

MicroBEN Bio : Technical Data

Finger ID Sensor Specification

- CPU : 400MHz DSP CPU with 6000 Finger data storage (upgradable)
- Enrolment Time : 2 second for finger capture
- Identification Time (1:N): <1 Sec. (Typical) for 1000 Fingers
- Allowable Finger Rotation : +/-90 Degree
- Allowable Finger Displacement :+/- 5mm
- Sensor : Optical (16mm x19mm),Scratchproof
- Image Size : 280 x 320 Pixel, 500 DPI
- Finger Template Size : 256 Bytes
- Minutiae-only Template Extraction Algorithm with EER : <0.1%

Technical Specification

- Memory : 52,500 Transaction Storage
- Battery Back-up : Retention of Clock & Data upto 10 Years
- Communication : RS232C or RS485 (Optional Ethernet / WiFi), Broad Band,GPRS
- Card Reader Input : Optional Contact less RF Proximity Reader HID/iClass/MIFARE/EM
- Out Reader Interface : Card Reader of any type mentioned above may be interfaced
- Keyboard : 4x4 Membrane Keyboard
- Printer Interface : Serial Strip Printer
- Display : 16x2 Backlit LCD(White in Blue)
- Access Control : Dry/Wet (12V) Contact O/P & ReX (Request-to-Exit)& DOTL input

Environmental Specifications

- Power : Wide Range SMPS Adapter (110-260V@50Hz +/-5Hz)
- Dimension : 146 (H) X 154 (W) X 45 (D)mm
- Enclosure : Dust Resistant ABS enclosure
- Operating Temperature : 0-55 Degree C

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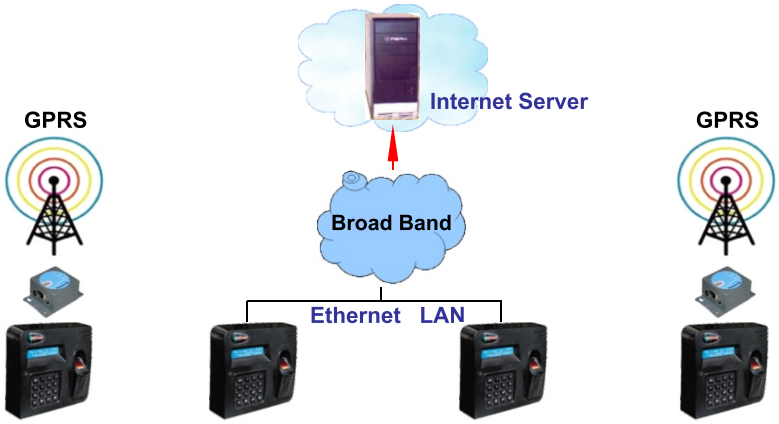
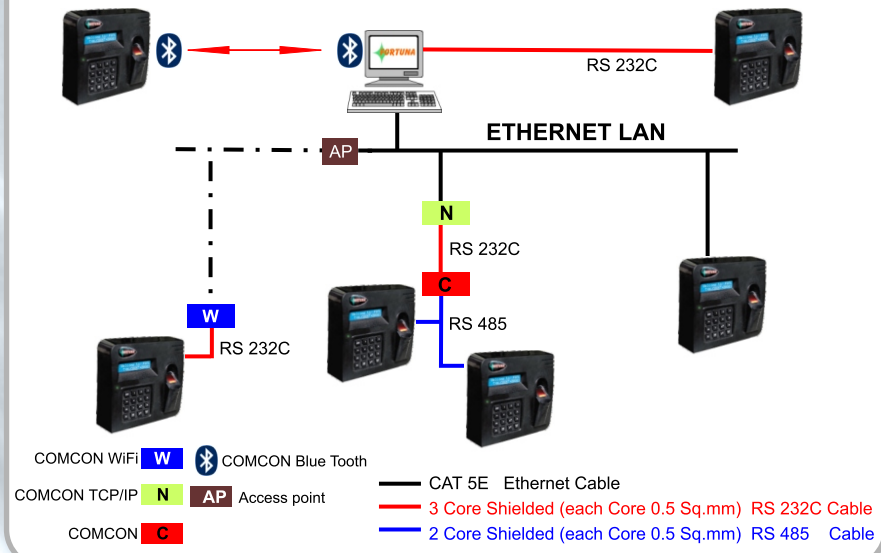
Data Transfer to Internet Server on Web

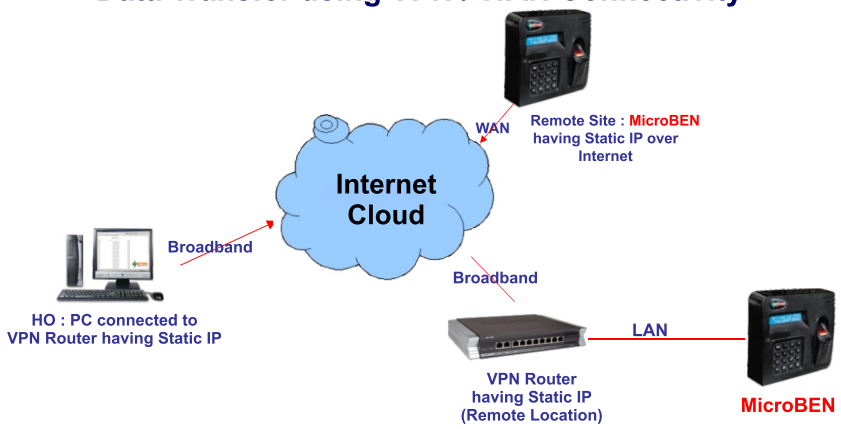


In this Connectivity Option, all the MicroBEN Bio's at installation Location(any where in the World) will be connected to Internet using Broad Band. A Online Application will be deployed at the Server. Attendance Data will be pushed in online mode from Attendance Terminals. Data can also be pushed using GPRS connectivity.

Data Transfer over WiFi/LAN/Bluetooth/RS232C/RS485



Data Transfer using VPN / WAN Connectivity



In this Connectivity Option, the Remote Location is having a VPN Router configured with a Static IP. The MicroBEN Bio on the Remote Location will be connected to the Router thru Switch. The PC at HO is also connected to a similar Router configured with Static IP. VPN tunnel is established using Broadband on either side. COMPRO 2000 Client Application will be deployed at HO. The Raw transaction Data from the remote location will be captured by HO without any user intervention.

** Specifications are subject to change without notice. ** eTIME Pro, Smart Finger are optional Software.*

eTIME Pro: Web based Attendance Management Software

ETIME Pro is a Web based Attendance Management Software to harness the power offered by 3-Tier architecture. It can be loaded on an Internet Server on Web or on an Intranet Server. Any Computer or Thin Client having a Web Browser (no Client software required!!) can be used with proper User authentication. The software has a user friendly interface.

A PC would poll the data from the Attendance Terminals And push the raw data to the Server (as shown) for online update of the database residing on the Server. The back end processing of the raw data happens automatically without any user intervention. The system is fully configurable & no customization is required for most users.

eTIME Pro takes care of all time Office related functions such as Master Maintenance, Processing of Attendance Data from Attendance Terminals, Manual Attendance, Leave, Tour/On-Duty input, Over Time Calculation & sanction, Shift Rotation, Late Rules etc. This provides host of Daily, Periodic & Yearly Reports related to Time Office. It also provides the data required for Payroll Calculation.

Smart Finger : Finger Print Enrollment Station

The Smart Finger Application is a Windows based application which facilitates the finger image capture using a USB based Finger Print Reader Module and stores the digitized finger template data in the centralized Server database. Finger Print Enrollment & Card Personalization Application Software may be deployed at one or many PC's on Company's LAN network. It can also captures Employee Photograph using USB camera.

- ❖ It gives a advanced finger print management tool with downloading of finger template to Attendance terminal automatically upon assignment.
- ❖ It can also upload the finger template from Attendance Terminal for centralized database Generation.
- ❖ It can be interfaced to MicroSMART,Smart Card writer for loading the template on MIFARE Smart
- ❖ It is featured with add-on functions such as ID Card Printing, marking Employee Black-listed.
- ❖ It can be used as HR management tool for Employee Data collection & record for future reference.

Ordering Information

- **MicroBEN Bio :** Finger Print Terminal(1:N) with RS 232C / RS 485 & Power Adaptor
- **MicroBEN Bio_Smart :** Terminal with MIFARE Smart Card RF(13.56 MHz) Reader, RS 232C / RS 485 I/F & Power Adaptor
- **MicroBEN Bio_iClass :** Terminal with HID iClass RF(13.56 MHz) Reader, RS 232C / RS 485 I/F & Power Adaptor
- **MicroBEN Bio_Pro :** Terminal with EM compatible RF(125KHz) Reader, RS 232C / RS 485 I/F & Power Adaptor
- **MicroBEN Bio_HID :** Terminal with HID Prox Reader, RS 232C / RS 485 I/F & Power Adaptor
- **In-Circuit TCP/IP** : Built-in Ethernet Interface for MicroBEN Bio
- **MicroPROX/Prox Point/MicroSMART** : Out Reader option
- **COMCON :** RS 232C to RS 485 Converter
- **COMCON GPRS** : GPRS based Interface converter
- **COMPRO 2000 :** Data downloading & Configuration Software
- **IP Server** : Online Data transfer & Monitoring server /service
- **Smart Finger :** Finger Print Enrollment Station
- **MIS Time Pro :** Windows based Time Office Software
- **eTIME Pro:** Web Based Attendance Management Software
- **ID Card:** (a) Proximity Card (b) Contact less Smart Card
- **Door Lock:** (a) Strike (b) EM Lock (c) Turnstile (d) Drop bolt
- **Accessories:** (a) Exit Switch (b) Lock/Reader Cable(c)Comm. Cable