Attendance and Access Control Device

BioNIC8

Mantra Softech is a Global Hi-Tech Manufacturer of Biometric Products and Solutions. We offer a Wide Range of Products in Biometric and RFID Industry.

// Introduction

Mantra Bionic8 is the most advanced fingerprint and smart card reader terminal featuring next-generation biometric technology and security platform. Bionic8 provides class-leading performance through the world's best matching performance, uncompromised security, and accuracy along with top-notch usability.

It is a wall-mounted biometric tablet with BOSS (Bharat operating system), featuring biometric fingerprint identification, smart card reader to provide multiple functions for various customer applications. It can be deployed in a wide variety of environmental conditions. It is specifically designed for mounting on surfaces used in indoor or outdoor places. It also has an inbuilt battery that can handle long hours of intense usage along with it has IP65 water & dustproof capability and has met the IEC sealing standards.

// Features

◆ Rugged design; IP65 Sealing.

◆ User Friendly design offers Intuitive User Experience; Ultrafast User Identification.

◆ Ultrafast User Access and Higher Security

◆ Secure eMMC boot; On board 16GB offers Higher Capacity to Manage User & Events.

◆ In-built Secure Access Module; supporting ISO7816 compliant Contact Smart Card

◆ Contactless Smart Card Module; supporting ISO14443 compliant Contactless Smart Card

◆ Tamper Detection and Protected.

◆ Battery Operated Devices with back-time of 5 hours.

◆ Multi Finger Capacitive touch display with Scratch proof Gorilla Glass.

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At a Glance

Hardware & System		
	CPU	: ARM Cortex®-A7 core, 528MHz & Upgradable to ARM Cortex®-A9 core, 1.0 GHz
	Memory	: 512MB RAM & Upgradable up to 1GB RAM & 16GB eMMC
	LCD	: 3.5" TFT LCD with 320 x 480 Resolution, 500 NIT, 16-Bit RGB
	Touch	: Scratch Resistant Multi-Point Capacitive Touch Screen with 6H Toughen Glass
	Keypad	: NA
	Camera	: NA
	Operating System	: BOSS OS or Linux Debian with Secure Boot
	LED Indicators	: Battery Charging Status, User Defined
	Audio	: 1W, 8 Ohm Speaker for Announcements
	RTC	: Yes (Coin Cell, On Board Reachargabale)
	Operating / Storage Temperature	: Operating : 0 Deg - 60 Deg C Storage: 0 Deg - 70 Deg C
	Operating Humidity	: 10%-90% RH (Non-Condensing)
	Dimensions	: (L x W x H) 86.29 mm x 40.40 mm x 214.61 mm
	Weight	: Approx Approx 550 grams
	Certifications	: CE, RoHS, BIS, IP65

Fingerprint Sensor		
	Fingerprint Type	: Scratch Free Optical Sensor
	Fingerprint Image	: 316 x 354 Pixels (16 x 18 mm)
	Image Specs	: 500DPI, 8 Bit Grayscale
	Certifications	: CE, FCC, RoHS, STQC, PIV, IEC60950, IS13252 Part I

Smart Card Reader		
	Contactless Card	: ISO14443 Type A/B Cards & SCOSTA Card Support, 424 Kbps or other lower speed, Antenna should read from 50mm read range.
	SAM	: ISO7816 Class A

Interfaces		
	Ethernet	: 10/100 Mbps, Through Aux Connector
	SAM Socket	: 1 x SAM Socket On Board
	DC Jack	: 1 x DC Power Input, through AUX connector
	RS-485 (Development Only)	: 1 Host or Slave (Selectable), Through Aux Connector
	Wiegand	: 2 Input ; 2 Output , Through Aux Connector, OSDP & Support all bit format
	GPIO	: 3V TTL 1 x Output, 1 x Input, Through Aux Connector
	Relay	: Two (5V/2A) Relay with Non-Potential Contacts (NC, NO, COM as Output), Through Aux Connector

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Interfaces	Micro USB	: 4-Pin Micro USB, Through Aux Connector (Development Only)
	USB OTG	: 5 Pin On Board USB Connector for Finger Print Module

Electrical	Power Adaptor	: Input AC: 100~280V, 47Hz to 53Hz; Output DC: 5V/3.0A
	Battery Back-Up	: Li-Po 4000 mAH Rechargeable & Replaceable Battery

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