

MOXA7E

Multi Fingerprint Scanner

MORPHS is a portable multi fingerprint scanner supporting both flats capturing. Slap fingerprint scanner is robust and suitable to capture plain ten-prints using four-finger slaps & thumbs.

Mantra Softech is a Global Hi-Tech Manufacturer of Biometric Products and Solutions.



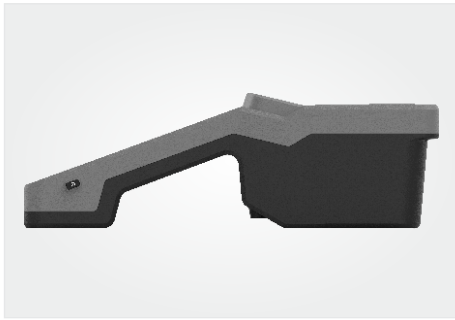
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Introduction

MORPHS is a unique & portable ten-print fingerprint capture device used to capture multi fingerprints. The device is ideal for delivering fast, accurate and reliable fingerprint capture results for biometric verification, identification and enrollment applications including indirect or direct sunlight; dusty conditions; and dry or dirty fingers. Excellent imaging performance even when fingerprint surface is stained by ink. MORPHS is Appendix F and mobile ID FAP 60 certified. The FBI certification ensures that the reader meets stringent image quality conditions and interoperability standards to work with Automated Fingerprint Information System (AFIS) systems. MORPHS is widely used for enrolling citizens by local or central government organizations, UID-Aadhaar, NPR, National ID projects, World Bank and UNESCO schemes. Additionally, an ergonomic design combined with an easy-to-integrate SDK architecture makes MORPHS the perfect choice for system integrators and solution providers.

Features

- | | | | | | |
|--|---------------------------|---|---|---|---|
|  | Supports Flat Capture |  | WHQL certified Device Driver |  | Better User Interface by LED Indicators |
|  | FBI Appendix F-Compliance |  | IP65 Water & Dust Protected Rugged Casing |  | Scratch-Free Surface |
|  | USB 2.0 High-Speed | | | | |

At A Glance

Hardware & System	CPU	: ARM Cortex A53 @1.5GHz Quad Core Processor
	Memory	: 2GB RAM + 16GB eMMC
	Micro SD Card	: Micro SD slot supporting up to 64 GB memory card
	LCD	: 7" IPS LCD with resolution (1024 X 600) with 16M colors
	Touch	: Scratch Resistant Multi-Point Capacitive Touch Screen with 6H Toughen Glass
	Operating System	: GMS Certified Android OS / Customized Android OS (optional)
	Front Camera	: 2MP Camera
	Back Camera	: 8MP AF camera with High brightness Flash LED
	LED Indicators	: Power On/Off, Battery Charging Status
	Audio	: High-Quality 1W Speaker for Announcements
	Microphone	: 3.5mm Microphone Jack
	RTC	: Yes
	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	: TBD
	Weight	: Approx 0.7Kg (Depend Upon Configuration)
	Certifications	: CE, RoHS, BIS, IP65
Fingerprint Sensor	Fingerprint Type	: Scratch Free Optical Sensor
	Image Specs	: 500DPI, 8 Bit Grayscale
	Certifications	: CE, FCC, RoHS, PIV, IEC60950, IS 13252 Part I
Smart Card Reader	Contactless Card (optional)	: ISO14443 Type A/B Cards, Mifare 1K
	Contact Card (optional)	: Smart Card Reader & Writer (ISO 7816 Compliant), Support 1.8V/3.3V/5V cards
	SAM Slot (optional)	: As per ISO7816 standard
Interfaces	4G/3G/2G	: 2G GSM/GPRS/EDGE: 850/900/1800/1900 : 3G WCDMA: B1/B2/B5/B8 : 4G FDD: B1/B3/B5/B7/B8/B38/B40/B41 : 4G TDD: All Band
	Wi-Fi 2.5GHz & 5.0 GHz	: IEEE 802.11 b/g/n with Flex antenna
	Ethernet with POE (PoE Optional)	: Ethernet 10/100 Mbps with PoE IEEE 802.3af
	Bluetooth	: BT + BLE 4.2
	GPS	: 16 Channel NMEA Compliant with Flex Antenna, AGPS Supported
	SIM Socket	: 2 x SIM Socket
	DC Jack	: 1 x DC Power Input

At A Glance

Interfaces	RS-485 (optional)	: 1 x Host or Slave (Selectable)
	Wiegand (optional)	: 1 x 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)
	Micro USB	: 1 x Micro USB Port for PC Connection as debug port
	USB	: USB2.0 Type A (for pendrive connection)
Electrical	Power Adaptor	: Input AC: 90~265V, 50Hz ; Output DC: 12V/2A
	Battery Pack	: Li-Ion 9600 mAH Rechargeable & Replaceable Battery

At A Glance

FINGERPRINT SENSOR	Fingerprint Sensor Type	: Optical Scratch Free Sensor
	Pixel Resolution	: 500 DPI +/- 1%
	Platen Area	: 3.5 x 3.2 in. (90 x 81 mm)
	Capturing Format	: Flat Four fingers & Two thumbs
	Active Platen Area	: 3.2 x 3.0 Inch (81.2 x 76.2 mm)
	Finger Image Pixels	: 1600 x 1500 Pixels
	Pixel Depth	: 8 Bits/Pixel (256 Gray Level)
	Capturing Speed	: >= 4 frames/sec
	Capture mode	: Auto capture with built-in quality check (incorporates NIST quality considerations)
HARDWARE	Interface	: USB 2.0, USB-IF Compliance
	Operating Voltage	: 5V +/- 5% (USB Powered Device)
	Current Consumption	: Operating : < 375 mA (Max) & Stand By : <80 mA (Max)
	Operating Temperature	: 0 to 50 °C
	Operating Humidity	: 10-90% RH, non-condensing
	ESD protection	: Contact Discharge: +/- 4kV, Air Discharge: +/- 8kV
	LED Indicators	: Power, Status, and fingerprint image quality
	Dimension	: 173 x 147 x 121 mm
	Weight:	: 3.6 lbs (1.6 kg)
Certification	Biometric Data Interchange Format	: ISO 19794-2:2011 for minutiae & ISO 19794-4:2011 for Image Template, WSQ3.1, JPEG2000
	EMI / EMC Compliance	: CE & FCC Part 15B class A
	Environmental, Health and Safety	: RoHS
	Safety	: EN/IEC 62368, IS 13252 (Part 1)
	Image Quality	: FBI's IAFIS Appendix-F & Mobile ID FAP60
	Ingress Protection Rating	: IP65
	Device Driver	: WHQL certified
System Requirements	Operating System	: Windows x86 & x64, Android, Linux
	Standard Software	: SDK: MIDFinger_Enroll
	Software Features	: NIST compliance WSQ compression module : NIST compliance NFIQ Quality check : Segmentation of flats into single fingerprint images

* Certification under process

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