

MANTRA

MOXA76

RUGGED FIELD-READY FINGERPRINT AND IRIS AUTHENTICATION TERMINAL

MOXA76 is a slim, high-performance biometric terminal designed to deliver seamless identity verification in mobile working environments. It is engineered for trusted and demanding industries such as border control, security, enterprise, government and finance applications.



Fingerprint Scanner



IRIS Scanner



NFC



SAM Slot



Camera



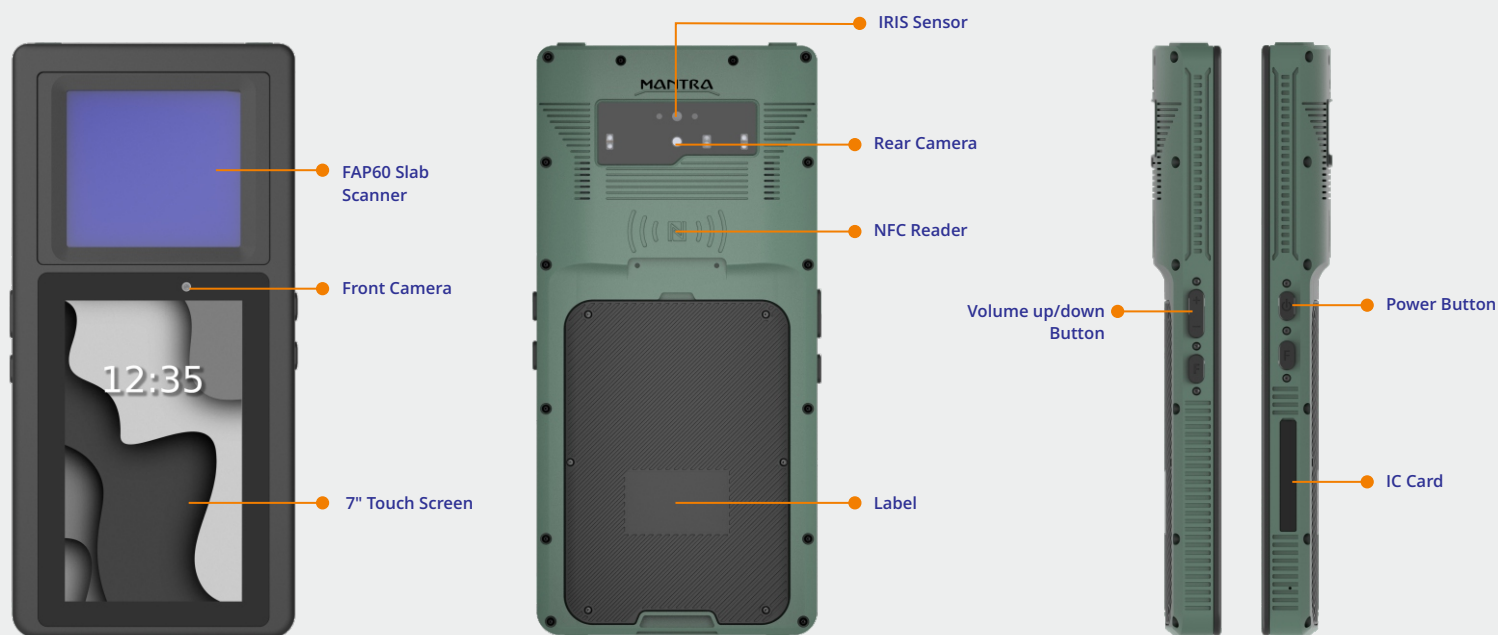
3G / 4G



Inbuilt WiFi



* Images are for illustration purposes only



Introduction

MOXA76 is a sleek, modern, and rugged biometric terminal engineered for precision and reliability. Featuring advanced fingerprint, Dual iris recognition, 7-inch IPS display, 13MP auto focus rear camera for detailed image capture, 5MP front camera, integrated NFC reader and dual USB connectivity. It transforms complex identity verification into a fast, intuitive experience. MOXA76 offers exceptional versatility—delivering seamless and secure identity authentication across diverse environments from remote field operations to high-security installation.

MOXA76 delivers a seamless user experience with broad application support, enabling effortless performance across diverse and complex operational scenarios.

Main Features



**FINGERPRINT
SCANNER**

13MP AF Camera
Support of face recognition



**8GB RAM
+ 256GB eMMC**



Certifications



ISO14443
Type A/B Cards,
MIFARE Classic / DESFire



IRIS

2GHz Octa Core



**7 Inch,
Vertical Screen**
H 302 * W 142
Capacitive Multi Touch Screen

Specification



Hardware & System

CPU	: High End Octa core 2GHz
Memory RAM	: 8 GB on board support
Memory Flash	: 256 GB on board support
Micro SD Card	: Supported upto 256GB
Operating System	: Android 13
Front Camera	: 5MP camera
Back Camera	: 13MP AF camera with Support of face recognition
Audio	: 2 Speaker with 1W/8ohm, 1 Omnidirectional Mic
Control Buttons	: x 1 Power On/Off Button, x 2 Volume +/-Button, x 1 Factory Reset Button
Dimensions (in mm)	: 302(L)x142(W)x36(H) mm
Weight	: 1.2kg



Display & Touch

Display	: 7 "(inch) LCD with resolution (600*1024)
Touch	: Support the multi-touch functionality



Iris Scanner

Simultaneous Capture	: Dual IRIS Capture
IRIS Diameter	: > 210 Pixel
Spatial resolution	: > 60 % @ 4.0 Lp/mm
Pixel resolution	: > 20 Pixel/mm
Image margins	: Left & right $\geq 0.5 \times$ iris Diameter, Top & bottom $\geq 0.25 \times$ iris Diameter
Pixel depth	: 8 Bits/Pixel (256 Gray Level)
Imaging Wavelength	: 700 - 900 nm
Frame Rate	: ≥ 10 Frames/Sec, Continuous Capture
Scan Type	: Progressive
Sensor SNR	: > 36 dB
Capture Mode	: Auto capture with built-in quality check
Illumination	: Near Infra Red (NIR)
Capture Distance	: 21CM+/-5%
Exposure Time (ms)	: < 33ms



Fingerprint Sensor

Fingerprint Type	: Thin, scratch free optical fingerprint sensor with backlight
Active Area (mm)	: 76.2 x 81.28 mm
Image Specs	: 500DPI, 256 Grayscale
Finger Capture Resolution	: 1600*1500 (4 fingers), 800*750 (Rolling Fingers)
FPS	: 3 FPS - 4 Finger, 10 FPS - Rolling Finger
*Certifications	: IEC61000-4-2, RoHS, FBI PIV, EN/IEC 62368-1, IS13252 Part I

Specification



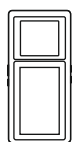
Smart Card Reader

NFC

: NFC high frequency:13.56MHz Supports 14443A/14443B

Contact Card Reader

: Smart Card Reader & Writer (ISO 7816 Compliant), Support 1.8V/3.3V/5V cards



Interfaces

4G/3G/2G

: 2G GSM: 850/900/1800/1900MHz, 2G/3G EVDO/CDMA: BC0

3G TD-SCDMA: B34/B39, 3G WCDMA: B1/B2/B5/B8

4G TDD-LTE Band: B38/B39/B40/B41

4G FDD-LTE Band: B1/B2/B3/B5/B7/B8/B20

Wi-Fi

: 802.11a/b/g/n/ac

Bluetooth

: Bluetooth 5.0

GPS

: GPS/Beidou/GLONASS/QZSS/GALILEO

SIM Slot

: 2 x SIM Slot

SAM Slot

: 2 x SAM Slot

USB Type C

: 1 x USB type C port

USB Type A

: 1 x USB Type A for memory expansion

DC Jack

: 1 x DC Jack for charging



Electrical

Power Adapter Range

: Input: 100 to 240V AC , 50/60Hz. with surge protection Output: 5V, 2A DC

Battery

: 3.8V 10,000 mAh high voltage lithium battery

Charging Connector

: x 1 Standard DC jack for 5V Adapter

x 1 USB type C cable



Environmental

Operating Temperature

: 0°C to 50°C

Storage Temperature

: - 20°C to 70°C (without battery)

Humidity (Operating / Storage)

: 5% ~ 95% (Non-Condensing)



Certifications

*Certification

: CE, RoHS, BIS

*Applied for certification

