IDENTITY VERIFICATION TERMINAL

E-BioPass Terminal

Fingerprint biometric terminal with integrated contact, contactless and SAM card interfaces



The E-BioPass Terminal is an Android-based identity verification device that combines an integrated fingerprint sensor with smart card interfaces in a single compact housing. It is designed to run customer-specific verification software on an open operating system platform.

Key hardware features

Integrated fingerprint sensor
FAP30 optical fingerprint sensor, FBI PIV certified

Contact smart card reader + PSAM slot
ISO 7816 Class A/B/C reader and a full-size PSAM slot for a secure access module

NFC reader
ISO 14443 A/B, MIFARE and ISO 15693 contactless cards

Tamper protection
Physical tamper protection powered by a secure IC

Wired and wireless connectivity
Ethernet (RJ45), 4G LTE, Wi-Fi 802.11ac, Bluetooth 5.1, GPS

At a glance

Processor	**MT8766 quad-core, 2.0 GHz**
Memory	**4 GB + 64 GB or 3 GB + 32 GB**
OS	**Android 15 or Android 11**
Display	**5" capacitive touch**
Battery	**10,000 mAh, removable**
Size	**200 × 82 × 36 mm**
Weight	**465 g**

PLATFORM	
Processor (CPU)	MT8766, quad-core Cortex-A53, 2.0 GHz
Memory & storage	4 GB RAM + 64 GB ROM, or 3 GB RAM + 32 GB ROM
Operating system	Android 15 or Android 11 (Android 15 upgradable to Android 16 on the 4 GB + 64 GB version)

BIOMETRICS & CARD INTERFACES	
Biometric sensor	FAP30 optical fingerprint sensor, FBI PIV certified, integrated
Contact card reader	ISO 7816 Parts 1–3, Class A, B, C (5 V, 3 V, 1.8 V) compliant, single slot (second reader optional)
NFC reader	ISO 14443 A/B, MIFARE, ISO 15693
SAM slot	1× standard full-size PSAM card slot (ISO 7816)

DISPLAY & CAMERAS	
Display	5" capacitive touch screen, 720 × 1280 pixels (upgradable to FHD 1920 × 1200)
Cameras	8 MP front camera; 13 MP rear camera with flash and autofocus

CONNECTIVITY	
Wireless	4G FDD-LTE & TDD-LTE, Wi-Fi 802.11 a/b/g/n/ac, Bluetooth 5.1, GPS / A-GPS
Wired network	Ethernet, RJ45, up to 100 Mbps
Ports & slots	1× USB Type-A, 1× USB Type-C, 2× Micro SIM, 1× MicroSD (up to 256 GB)

POWER, SECURITY & MECHANICAL	
Battery	3.8 V / 10,000 mAh removable lithium-ion polymer battery
Security	Physical tamper protection powered by a secure IC
Operating temperature	–10 °C to 55 °C
Storage temperature	–20 °C to 60 °C
Dimensions	200 × 82 × 36 mm
Weight	465 g

Provider

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Scope of this datasheet

This document describes the terminal hardware and its operating system only. Application software, enrolment and verification workflows are project-specific and are not part of this specification.

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