



# EID10 PLUS

*Rugged Biometric & Identity Document Reading Terminal*



# Introduction

EID10 Plus is the purpose-built device for mobile authentication and registration of individual identity using integrated professional MRZ scanner, Smartcard reader (contact or contactless), a Fingerprint sensor, a Facial Recognition Camera, 1D and 2D Barcode scanner and MSR. All these configurations coexist in handy, compact gadget. Moreover, EID10 Plus is fully rugged to be used in extreme outdoor environment. It uses the latest Android platform with advanced security features as well as reliable and high speed connectivity options as 4G LTE. This ensure to send queries securely to a remote database center like AFIS. EID10 Plus will greatly streamline and facilitate any challenging tasks of mobile ID authentication and registration.

# All-in-one Mobile Terminal



# Accurate & Reliable Reading Engines

**SAFRAN**  
Morpho  
MorphoSmart™ CBM E3



**Access IS** OCR Reader  
[www.access-is.com](http://www.access-is.com)



**SAMSUNG**  
13.0MP  
Auto Focus  
Camera



**GEMPLUS**  
**gemalto**  
security to be free



**NXP**



**GEN2WAVE**

# Advantages

## Powerful Android Platform

EID10 Plus has the latest and powerful Android platform with

- 1.8GHZ 8-core Processor (SAMSUNG Exynos)
- Android 6.0 Marshmallow
- 3GB RAM, 16GB ROM

Which enables speedy and seamless processing of robust applications.



# Advantages

## Born to Survive in Extreme Environment

EID10 Plus is ideal to be used in any rough environment. With IP64 sealing, it is well protected from dust and water ingress. Its operating temperature varies from 0°C to 50°C for Snap-on and from -20°C to 60°C for base terminal, and it can endure 1.5m multi drops.

Protected from water spray



Anti Shock Resistant  
By 1.5m drop on Concrete



GEN2WAVE



All functions are in a compact user friendly handheld. EID10 Plus enables you to read biometric & identity document reading anywhere. All functions can follow you in small uniform pockets, with remarkably light weight and portability.



Light Weight



Portability

# Advantages

## Reliable High Speed Multimode Connectivity

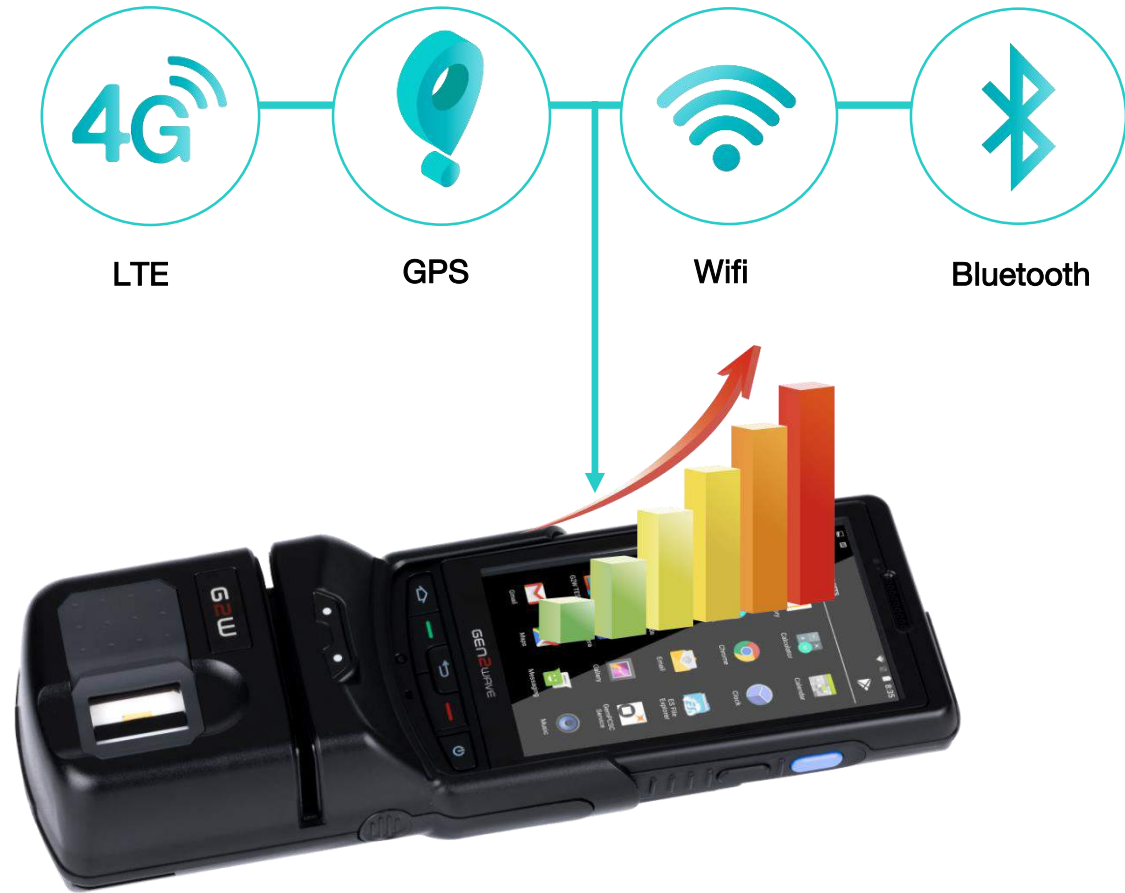
Speedy and secure data communication with a remote data center like AFIS is critical to ensure successful field operation. Thus, the EID10 PLUS offers latest and advanced technology of connectivity options :

**4G LTE** Gemalto PLS8-E : LTE , HSPA+, EDGE, GPRS  
LTE : 800, 900, 1800, 2600Mhz  
HSPA+ : 900, 1800, 2100Mhz  
GSM/GPRS/EDGE : 900, 1800Mhz

**WLAN** IEEE 802.11 a/b/g/n/ac

**Bluetooth** V4.2 BLE + HS (BT Headset support)

**AGPS** A-GPS (Ublox-7 Series)





# Advantages

## 2 SAM Slots for Secure Communication



# Technical Specification

Performance Characteristics	
CPU	1.8 GHz Octa-core processor (SAMSUNG Exynos)
OS	Android 6.0 Marshmallow
Memory	RAM 3GB, ROM 16GB
Physical Characteristics	
Dimensions	147mm(H) X 78mm(W) X 21mm(D)
Weight	420 gram with standard battery 470 gram with extended battery (4000mAH)
Display	4.3 inch WVGA (Sunlight readable)/480 X800 (Capacitive touch, Resistive touch optional)
Input	5 Front Key / 5 Side key
Battery	Standard battery 2860mAh Li-ion Contact Smart Card Reader (optional)
	Extended battery 4000mAh Li-ion
	Built-in Backup Battery 200mAh Li-Polymer Hot-Swap available
Communication Interface	Host : USB2.0 High Speed Client : USB 2.0 High Speed External Serial RS232C RJ45 Port (1Slot/4Slot Ethernet Cradle) * Only USB Client operates when installing EID 10 PLUS
Notification	Vibration and Charging LED, noise when certain icon is tapped on screen
Audio	Speaker / Receiver / MIC
Expansion Slot	Micro SD card(up to 32GB)

User Environment	
Operation Temp.	-20 °C ~ +60 °C (-4°F~140°F)
Storage Temp.	-30 °C ~ +70 °C (-22°F ~158° F)
Humidity	Non-condensing, 93%
Sealing	IP64
Drop Spec.	1.5M drop to concrete

Wireless Communication	
Wireless(WWAN)	Gemalto PLS8-E : LTE, HSPA+, EDGE, GPRS LTE : 800, 900, 1800, 2600Mhz HSPA+ : 900, 1800, 2100Mhz GSM/GPRS/EDGE : 900, 1800Mhz
Wireless LAN	IEEE 802.11 a/b/g/n/ac
Bluetooth	Bluetooth V4.2 BLE + HS (BT Headset support)
GPS	A-GPS (Ublox-7 Series)
Data Capture	
Finger Print	Fingerprint scanner (Morpho CBM E3)
MRZ	Machine Readable Zone Reader (Access-IS OCR310-E)
Contact Smart Card	Contact Smart Card Reader
NFC	Near Field Communication Tag Reader ISO 14443 A/B, Mifare Desfire, ISO15693 Card support 2 SAM Slot
MSR	Magnetic stripe Card Reader
Barcode Scanner	1D Laser
	2D Imager
	Zebra SE965
	Zebra SE4750
Camera	13.0MP Auto Focus, Flash
Accessories	
Standard Accessories	All in the gift box (Desktop cradle, PSU, USB cable, Stylus, Screen protector)

OCR (MRZ Reader)	
<b>Model</b>	OCR310e
<b>Standard OCR Fonts</b>	OCR-B and E13B
<b>Machine Readable Passports (MRP)</b>	2 lines of 44 characters
<b>Machine Readable Visas (MRV)</b>	2 lines of 44 characters, 2 line of 36 characters
<b>Travel Documents</b>	2 lines of 36 characters, 3 line of 30 characters
<b>ID Document</b>	1 line of 30 characters, 2 lines of 36 characters, 3 lines of 30 characters
<b>MRZ stripe speed</b>	up to 100cm/sec
<b>OCR decoding</b>	up to 0.3 second Field of view object height: 19.6 mm nominal
<b>Field of View Object Height</b>	19.6 mm nominal
<b>Depth of Field</b>	1.5 mm maximum from imager window
MSR (Magnetic Stripe Card Reader)	
<b>Model</b>	MH1637A
<b>Magnetic stripe Reader</b>	Reads magnetic cards complying with ISO7811/2-5

Fingerprint Sensor	
<b>Model</b>	Morpho CBM-E3
<b>Sensor Type</b>	Optical Sensor
<b>Sensing Area</b>	22.0mm(W) x 14.0mm(L)
<b>Sensing quality</b>	500 dpi
<b>Pixel Resolution</b>	256 gray scale values
<b>Database capacity (users)</b>	500 (Standard) up to 5000
<b>Database capacity (templates or fingers)</b>	1000 (Standard) up to 10000
<b>Matching capability (1:N)</b>	1:500 (Standard) up to 1:5000
<b>Certifications</b>	FBI PIV IQS / ISO 19794-4: 20011(Annex. B) MINEX & FIPS 201 compliant algorithms / STQC
Fingerprint Authentication Performance	
<b>FAR (False Acceptance Rate)</b>	<10 <sup>-8</sup> (Depending on the security requirements)
<b>Verification Time</b>	0.6 sec in 1:1 mode, 0.7sec in 1:500 mode

Contact Smart Card Reader		
	Description	Remarks
<b>IC Driver</b>	CR30	Gemalto
<b>Standard Compliance</b>	EEM&non-EVM	EMVCo, emv2000 4.2 and PBOC
<b>Supported Smartcards</b>	Asynchronous	Microprocessor cards T=0, T=1 protocols Transmission rate: up to 826Kbps (TA 1=17=@CK=4.8MHz)
	Synchronous	Through the Command Interpreter
<b>Smart Card Interface</b>	Smart card power supply	5V and 3V and 1.8V Short circuit current limitation Power up/down control consequence
	Smart card management	Card insertion/Extraction detection
	ESD protection on card I/O	8KV contact
<b>Serial Host Interface</b>	Serial asynchronous link	UART, TTL Level(+3.3V) 9600bps~115,200bps Format: 8bits, no parity
	Communication Protocol	CCID V1.0 on serial TTL linkU
<b>USB Host Interface</b>	USB 2.0 compliant	CCIE V1.1 Full speed 12Mbps, hub-less Multi-slot driver for Windows

Contact Smart Card Reader		
	Description	Remarks
<b>Ambient Operating Temperature</b>	-10°C to +50°C	

NFC Reader	
<b>Model</b>	PN548, NXP Semiconductor
<b>Operating Frequency</b>	HF, 13.56MHz
<b>RF protocols</b>	ISO/IEC 14443A/B MIFARE DESFire ISO/IEC 15693
<b>SAM Slot</b>	2 SAM Slot
<b>Features</b>	ARM Cortex M0 microcontroller core with <ul style="list-style-type: none"> <li>Code memory: 96KB ROM &amp; 28KB EEPROM</li> <li>Data memory: 7KB SRAM, 4KB EEPROM</li> </ul> Full NFC Forum compliance (wave 1&2) and EMVCo Digital compliance

# Accessories

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Desktop cradle with USB Type A and B  
(Single Slot Cradle)  
**SDTC-RP1000-UX**



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Desktop cradle with USB Type A and B, and Ethernet  
(Single Slot Cradle)  
**SDTC-RP1000-UE**



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Ethernet 4 slot cradle with PSU  
(4 slot Cradle)  
**4DTC-RP1000-UE**



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Power supply for single-slot desktop cradle  
**PS-RP1000-SDTC**



# Application





Law Enforcement



## Benefit Delivery

Delivery of pension, check, credit card and cash



## Border Control & Refugee Registration



## Compulsory ID Registration in Pharmacy, Phone shop ...



**Voting and Ballot Box**  
Identify and check voter.