



ELECTRONIA



EL SMART

BIO HANDHELD TERMINAL

Instant Identity Verification for Mobile Applications

ELSMART BIO TERMINAL by Electronia is a handheld device designed to provide identity verification by reading contact and contactless chips found on identification documents such as ID cards, Passports, National ID Cards, and Driver's Licenses, Credit Cards, and Health Cards, among others.

The **ELSMART BIO TERMINAL** combines a contact and contactless smart card reader, a 500 dpi fingerprint sensor for instant biometric verification, and a large color digital touchscreen display readable in direct sunlight or low-light conditions — all in a small handheld Windows CE.NET unit weighing approximately two pounds.

Designed for flexibility, **ELSMART BIO TERMINAL** features a variety of expansion capabilities. Multiple interface options such as Bluetooth®, WiLAN™, USB, CF and Serial port are built into the unit.

Features

- Durable - Can withstand harsh and rugged environments
- Upwards compatible - Will support all future ID cards to be issued
- Portable - Allows for ID verification anywhere
- Flexible - Multiple interfaces for smart cards and interfaces
- Fast - Authentication in seconds
- Expandable - Can be upgraded for future needs
- Convenient - Easy to use and to use
- Scalable - Able to support a large system and support large numbers of users
- Adaptive - Multiple interface: can support various ID card sets
- Compliant - Supports most industry standards
- Accurate - Precise, accurate and solid
- Updatable - Quick software and firmware updates in the field
- Secure - Protection against forged or counterfeited cards

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Technical Specifications

Barcode reader:

1D and 2D barcodes
Camera instead of laser
Works in daylight and at night
Grayscale : 720 x 480 pixels
LEDs to illuminate the card

Battery:

High-capacity Lithium-Ion
Long autonomy
Short recharge time

Card interfaces:

ISO-7816 contact cards
ISO-14443 A & B contactless cards
ISO-15693 contactless cards
MIFARE and MIFARE DESFire cards

CPU:

Intel XScale PXA270
520 MHz

Display:

Size - 53.64mm x 71.52mm (2.11"x2.82")
Diagonal - 89mm (3.5")
QVGA size (240 x 320 pixels)
Capable of displaying up to 262,144 colors
Pixel size (pitch): 0.2335mm x 0.2335mm
Accuracy of detecting dimension: ±1%

Certifications:

FCC, CE, Others

Fingerprint matching algorithm:

Can support many algorithms
Fast and precise

Fingerprint reader:

Capacitance-based
High resolution
High ESD immunity
Large area

Interfaces:

High-density connector for one USB, Ethernet and
serial connectivity as well as power input
Two Security Application Modules (SAM) sockets
One Subscriber Identity Module (SIM) socket
One SD I/O slot
Speaker with audio codecs

Memory:

128 MB RAM
128 MB Flash
Expandable flash memory with SD card

Operating System:

Microsoft Windows CE 5.0
_NET platform

Ruggedness:

High Ingress Protection rating
Compliant to many MIL specifications
Wide operating and storage temperature range

Wireless communication:

Wi-Fi 802.11b/g (Option with an SD card)
GSM 900 / 1800 MHz (Option)
GSM 800 / 1900 MHz (Option)
CDMA 850 / 1900 MHz (Option)

Other Features:

Tamper Switch



Applications

- Border crossing, immigration and travel applications requiring biometric and ID document verification
- Corrections, law enforcement and emergency responders for mobile identity and credential verification
- Access control for biometric identity verification at entry points, gates, airside and other remote access areas for contact or contactless smart card and/or ID card license. Employee tracking in emergency and entry point scenarios. Identity verification for wireless systems for biometric transmission to a back-end system for ports, nuclear power plants and other highly secured areas
- Mobile applications such as mobile point of sale and courier services.
- Ticket management for reading ID cards to verify that tickets were purchased and authorize access to VIP areas.
- Identity verification of cardholders at stadiums and public events.

