



New Generation Solutions

EISmart G4

Rugged Terminal for Outdoor Applications

- Access Control, Parking Control
- Attendance
- Paid Parking (E-Purse)
- IP66 Weatherproof enclosure
- TCP/IP Based Connectivity
- Integrated Terminal or Split reader options
- Electric Barrier Interface ready

SMART OUTDOOR TERMINAL



EISmart ISO14443 compliant, rugged Smart card Terminal is the perfect partner to Electronia's Access, Attendance, and e-purse applications. It works for an organization of any size and structure with multiple locations and multiple access gates. The entire system is scalable and flexible and can be configured to suit user requirements. In standard Elsmart configuration, 1 to 120 Terminals can be connected in a multi-drop interface. In Elsmart plus configuration, the system supports 128 sites with 128 Terminals per site. The terminals are based on an embedded controller design which can work either Online or Offline mode. For Online mode, multiple connectivity options such as RS232, RS485, Ethernet LAN or telephone line through dial up Modem are available. The terminal can store up to 4,000 records and has features such as Buffer exhaust warning, Blacklist, and Flash memory to ensure data availability in case of a power failure. The terminal provides relay output contacts to connect to an electric barrier gate, road blocker, Turnstile, bollard, etc. Optically isolated input are provided to connect to emergency door alarms or fire safety systems to ensure that gates are open during an emergency.

The Terminal is highly interactive and provides bilingual (Arabic/English) user interface. It consists of a controller PBA (Printed Board Assembly), a card reader, LCD (Liquid Crystal Display), LEDs and an audio alert to interactively provide the status of the terminal's operation. The controller continuously monitors the reader.

When a Smart card is brought within the reading range of the terminal, the card reader senses and reads the data on the card and transfers it to the controller for validation. If the data is valid, access is granted or attendance is logged based on the configuration of the terminal. This is indicated by LCD and LED display. Distinctive audio alert tones are provided for entry and exit. The LCD shows the name (Alias Name) or the badge Number of the user along with the entry/exit indication for attendance terminals.

The terminals can be used in high security areas to grant access. For parking applications, the smart card can also be used as a prepaid card to deduct the amount for access.



Elsmart Plus Terminal Specifications

1. General

Application	Access & Attendance
Smart card	ISO/IEC 14443 (contact less) card
Operating Distance	0 to 30 mm
Mode of Operation	Standalone/on line
Visual Indication	Red/Green LEDs

Authentication Options	Smart Card based E-Purse option
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Card Formats	Elsmart 1K card based format (Restricted to 120 Terminals)
ElSmartPlus	Elsmart Plus 4K card based format (128 Site X 128 Terminal per site) <1 sec

2. Hardware

Processor	Based on ARM core processor
Real-time clock:	Built-in
Battery backup	3V, Lithium CR2032, 5 years life
Graphical LCD Display	Monochrome 128 x 64 Graphic Display Module Backlight on/off control
LED Indication	Red/Green LED
OUTPUT Control	Door control Relay contact (Normally Open/Close selectable)

INPUTS	Two optically isolated inputs
Flash Programming	Firmware upgradeable through serial port

3. Communication

Serial Port	RS232/485 selectable
Ethernet	DHCP/STATIC IP mode programmable
Modem	33/56K Analog Telephone modem

4. Terminal Features

Transaction Storage:	4,000 Logs 'Warn: Low Memory' 10% free memory 'No Free Memory' @4,000 logs Memory Overwrite capability
ATP Database:	400 Records
Punch Denial cases:	Error Tone with display of one of the messages. 'Access Denied', 'Card Expired,' 'Exit Missed', 'Entry Missed' or 'Access Barred'

5. Other Features

PC based Terminal configuration
Terminal diagnostics
Expiry Date alert
LCD Backlight turnoff option
At the Terminal Programming (ATP)

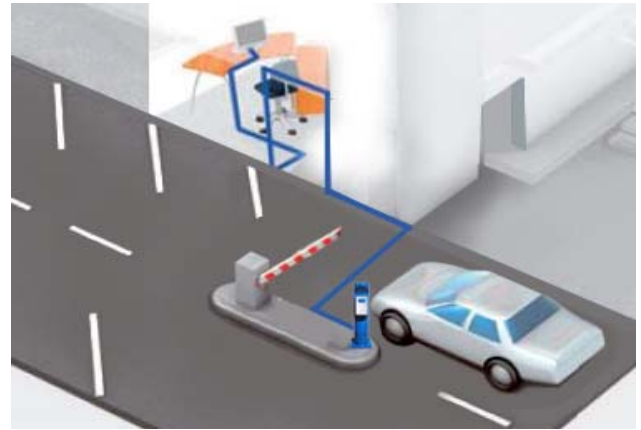
6. Environmental, Electrical and Mechanical

Operating Temperature	0° C to +60° C (Outdoor unit)
Storage Temperature	0° C to +70° C

Protection:	IP66
Mechanical Mounting	Pedestal/ Wall mountable, Fastened by tamper proof screws

7. Ordering Information,

- Part Number: 100-00100-00000 Terminal, Smart AA, Outdoor, G4
- Part Number: 100-00087-00000 Reader, Split, Outdoor, SAA



1. Integrated Terminal option
size: 200 X 120 X 60 mm



2. Split Reader option
size: 120 X 80 X 60 mm

