

# ELSMART PORTABLE TERMINAL



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ELSmart Portable Terminal design is based on a new generation ARM processor core and ELSmart G4 controller module. The unit is built as a rugged, industrial grade portable device for easy use and maintenance. The unit has a built-in battery, large sunlight readable LCD display and regular size interface connectors for durable interface.

**The major features of the Terminal design are given below:**

### Rugged and Easy to Use, Industrial grade design



Fig 1: Smart card operation with Portable Terminal

- Smart card transaction time: 1 second
- Displays Cardholder Name, IN/OUT direction, with audio beep
- On screen indication of Battery status and Log status
- Large, Multi-line Sunlight readable display
- Built-in Real-time clock and Date/Month/Year and Time Display
- Arabic/English display as per Cardholder Language preference

### Communication Interfaces

- 10/100Mbps Ethernet with Static IP or DHCP with RJ-45 socket
- RS-232 interface with an RJ-11 socket
- USB interface to PC (through RS232 to USB2.0 converter)



### Onboard Log Storage

- The unit can store a maximum of 4000 Attendance punches (logs) in its on-board memory
- This memory is protected and non-volatile (estimated 10 years storage) or until downloaded

### Downloading of logs

- Logs can be downloaded to a local PC (Polling PC) either through USB port or through a cross-wired LAN cable. The logs will be transferred automatically to the central database if there is a WAN/Internet connection available for the local PC.
- In case LAN/WAN connectivity is available at the remote site with a static IP address, the unit can be connected directly to the network. The polling application will automatically handle the portable device and download the logs.
- The site supervisor may just connect to the LAN after the punches are collected and no other setup is required.



Fig 2: Portable module connected to USB Port for log transfer



### Battery Backup design

- Built-in Li-Ion Battery
- Charging Voltage 5V (provided through 100-220VAC Adapter, 5V/2A, included)
- Battery Charge indication on screen

### Power Saving

- Designed to automatically shutdown the unit if there is no activity for set time in minutes  
Provides a beep one minute prior and displays "Shutting down". Show a smart card to skip a shutdown if required.
- Separate ON/OFF buttons. Turns Off instantly when the Red button is pressed.
- Firmware based device and no Operating system delays to shut down.
- Once the battery is fully charged, the unit can be used for 3 days of operation
- Fully discharged unit can be instantly Powered ON for operation by applying the external supply

### Package includes

- Terminal, SAA, Portable, G4
- Adapter, 10W, 5V, SAA, Port, G4
- Cable, converter, RS232 to USB