

## Technical Specification: ESL850



ESL850 is a multifunction card reader & writer which perfectly combine the function of magnetic card reading, IC card / SAM card reading & writing and also customer personal information & password inputting, build standard hardware platform for reading/writing contact logic encryption card and COS operation of CPU card.

ESL850 has compact and refined appearance to save counter space, ergonomically design and user-friendly for operation, reliable performance and flexible application to ensure highly secure service. Be applicable for bank network, insurance, medical treatment, tariff and POS system.

### Structure

- 20-key keypad
- 4-line graphic LCD display
- 8 extra function key
- 1 magnetic reader
- 1 IC card reader and writer
- 4 SAM card wedge (at option)

### Features

- 20 key include general number input 0-9, ENTER , CANCEL and CLEAR and other functional keys.
- 8 extra function key provide convenient operation according to graphics.
- Operate with LCD graphic display and beep indication.
- With internal 64 bit DES module (3DES module available), realize data transfer and authentication under encryption.
- Encryption support DUKPT & Master/Session Key, compatible with ANSI X9.24
- PC/SC, T=0 and T=1 compatible.
- Self-destroyed against violation.
- Provide DEMO drive program and tools for further development in Windows.

## Technical Specification

### LCD graphic display

- 128×64 dots
- display 16×4 characters and graphic drawing

### Keypad

- 12 key; include 10 numeric key 0-9 and 2 function key

### Magnetic reader

- Bi-directional reading track 1/2/3 of magnetic card complied with ISO-7811/7816

### IC card reader/writer

- IC card wedge, also read memory card & CPU card, internal 1-4 SAM card wedge available at option

### Keypad encryption

- Voice module
- DES (or 3DES) encryption module available at option

### Communication Interface

- Standard RS232 interface or USB interface available at option

### Power supply

- RS232 interface: P4 power connector supply DC+12V (AC 90 ~ 250V)
- USB interface: USB interface supply DC+12V

### Dimension

- 180 × 110 × 55mm

### Weight

- 600g

### Working environment

- -10°C ~ 60°C
- RH 20% ~ 98% non condensing

## Model description

Type	X1	Interface	X2	LCD	X3	Magnetic Tracks	X4	IC / PSAM
850 Pin Pad with MSR / Barcoder	R	RS232 Series port	L	16*2 character	4	1 & 2 tracks	0	No
	U	USB	G	128*64 graphic	5	2 & 3 tracks	1	Smart Card
					6	1& 2 & 3 tracks	2	Smart Card and 4 PSAM

### For example

ESL850 RL42

Pin pad, with RS232 series interface, 16\*2 characters LCD, 1/2 magnetic strips reader, smart card reader, 4 PSAM module.