TECHNICAL DATASHEET

ESL850 Smart Pin Pad

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

850 x1-x2-x3-x4

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.