

TECHNICAL DATASHEET

ESL4010 Fingerprint & IC Card Keypad



ESL4010 is a high-tech product integrated fingerprint identification, IC card and keypad (encryption/non-encryption) technology, applicable for banks, securities market, and POS terminals, etc.

Features

- Equipped with highly secure PIN shield.
- Derived Unique Key Per Transaction (DUKPT) or Master/Session Working key.
- Comply with international security standards and payment scheme specifications.
- Easy-to-read LCD display and small table-top footprint.
- High-quality conductive rubber button.
- Support different security key entry software.
- Provide audio and visual key entry response.
- Simple user-friendly operation and can be further customized.
- Applicable to many operating systems : DOS,WINDOWS, NT, UNIX and LINUX.

Technical Specification	
DES encryption keypad	<ul style="list-style-type: none"> • Baud rate: 1200, 2400, 4800, 9600 BPS • Voice prompt, 2-line/16 characters LCD display • Disconnect word echoplex / direct echoplex
IC card reader /writer	<ul style="list-style-type: none"> • Baud rate: 1200, 2400, 4800, 9600 BPS
IC card communication protocols	<ul style="list-style-type: none"> • TLP224 protocol / BLOCK protocol
Max. data length excluding command head	<ul style="list-style-type: none"> • 245 bytes for writing • 248 bytes for reading
IC card contact lifetime	<ul style="list-style-type: none"> • Min. 100,000 times
Reliability	<ul style="list-style-type: none"> • Min. 5,000,000 cycles for individual button
Connector	<ul style="list-style-type: none"> • 4-pin RJ-11C connector
Housing	<ul style="list-style-type: none"> • Plastic PC, Ivory color

SM30A Fingerprint Keypad specifications	
Sensor	<ul style="list-style-type: none"> • Optical fingerprint sensor
CPU	<ul style="list-style-type: none"> • Built-in
Dimensions	<ul style="list-style-type: none"> • Collection Head (L×W×H) 21mm×32mm×63mm • Manage Board (L×W) 43mm×93mm
Pixel resolution	<ul style="list-style-type: none"> • 450 dpi

Weight	<ul style="list-style-type: none"> Collection Head 28g Manage Board 30g
Comparing Time	<ul style="list-style-type: none"> 1s maximum
Recognition accuracy	<ul style="list-style-type: none"> 0.01% for false reject rate 0.0001% for false accept rate
Power supply	<ul style="list-style-type: none"> DC 5V ± 10%
Power consumption	<ul style="list-style-type: none"> Static: 270mA Working: 320mA
Temperature	<ul style="list-style-type: none"> Operating -40°C ~ 60°C Storage 0°C ~ 90°C
Humidity	<ul style="list-style-type: none"> RH 5% ~ 95%

Model description

4010 x1-x2-x3-x4-x5

Type	X1	Interface	X2	DES/3DES Module	X3	LCD Module	X4	Sound Module	X5	Smart card Reader
4010 Pin Pad with Fingerprint Reader	R	RS232 Series port	0	No	0	No	0	No	0	No
			1	Yes	1	Yes	1	Yes	1	Yes

For example

ESL4010 R1111

Pin pad with Fingerprint, with RS232 series interface, DES/3DES encryption module, LCD module, Sound module and smart card reader module.