



## Smartcards

### Contact Smart Cards

Our state of the art Smartcard plant has been vetted and accredited by Philips and Arsenal Research for certification of Mifare products according to ISO/IEC 14443. The Smartcard production plant at Card Pro is ISO 9001 accredited and has a track record of producing work for Ministry of Defence, Transport and National Security departments for governments around the world.

Our Smartcard plant has over 140 highly skilled and trained workers operating a two shift system. This set up enables Card Pro to manufacture 6 million Contact and 3 million Mifare cards each month. With our capacity reducing every month we have major plans to increase the capacity to over 12 million cards per month by 2007.

We are able to offer most Smartcard products so for any not listed please call us. Our standard range of products include:

### Siemen Series

**SLE4406** 104bit encryption card, can read data, write data and password, as well as personalization, etc...

**SLE4442** 256byte encryption card, can read data, write data, protect data and write password.

**SLE4428** 1024byte encryption card, can read data, write data, protect data and do password operation.

**SLE4404** 416bit, two-level encryption.

**SLE4418** 1kbyte, with protection.

**SLE4432** 256byte, with protection.

### SLE 4428

The SLE4428 is a standard, low-cost EEPROM memory smartcard with 1K bytes of available storage, with an irreversible write protection feature and a 2-byte programmable security code.

- ISO 7816 Compliant pad locations
- 1024\*8 bit EEPROM organization
- byte-wise addressing
- Irreversible byte-wise write protection of lowest 32 addresses (byte 0-31)
- 32\*1 bit organization of protection memory
- 2-wire link protocol
- Answer to reset according to ISO standard 7816-3
- Programming time 2.5mS per byte for both erasing and writing
- Minimum of 10,000 write/erase cycles
- Data retention > 10 years
- Programmable Security Code (PSC)
- Data write only after correct 3-byte PSC

### SLE 4442

The SLE4442 is a standard, low-cost EEPROM memory smartcard with 256 bytes of available storage, with an irreversible write protection feature and a 3-byte programmable security code.



- ISO 7816 Compliant pad locations

- 256\*8 bit EEPROM organization

- byte-wise addressing

- Irreversible byte-wise write protection of lowest 32 addresses (byte 0-31)

- 32\*1 bit organization of protection memory

- 2-wire link protocol

- Answer to reset according to ISO standard 7816-3

- Programming time 2.5mS per byte for both erasing and writing

- Minimum of 10000 write/erase cycles

- Data retention > 10 years

- Programmable Security Code (PSC)

- Data write only after correct 3-byte PSC



## Smartcards

### Shanghai FuDan series (Compatible)

**FM4442** 256byte encryption card, can read data, write data, protect data and write password (compatible SLE4442).

**FM4428** 1024byte encryption card, can read data, write data, protect data and do password operation (compatible SLE4428).

### Shanghai BeiLing series (Compatible)

**BL4442** 256byte encryption card, can read data, write data, protect data and write password (compatible SLE4442).

**BL4428** 1024byte encryption card, can read data, write data, protect data and do password operation (compatible SLE4428).

### ISSI series (Compatible)

**ISSI885C1604** 16Kbit logical encryption card.

**ISSI24C16** 2048 byte non-encryption card, just can read and write.

**ISSI4428** 8Kbit CPU card chip, its capacity is 1K?-8BitEEPROM, with protection function and

encoding security digital approval function. It can be used in all kinds of IC card (compatible SLE4428).  
**ISSI24C01** 128 byte non-encryption card, just can read and write.

**ISSI24C64** 819 byte non-encryption card, just can read and write.

### Atmel series

**AT24C01A** 128byte non-encryption card, just can read and write.

**AT24C04** 512 byte non-encryption card, just can read and write.

**AT24C16** 2048 byte non-encryption card, just can read and write.

**AT24C64** 8192 byte non-encryption card, just can read and write.



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