

MIFARE Classic 1K Label - Rectangular



The ever-popular MIFARE Classic 1K chip from NXP in sticky label format. Operates at 13.56 MHz wireless frequency, according to the ISO 14443A standard, and contains 1Kbytes of read/write memory that can be used for multiple applications.

MIFARE Classic chips typically operate at a distance of up to 10cm depending on the power provided by the reader.

Ideal for MIFARE Classic applications where the card form-factor is not ideal, and for NFC-enabling products or posters.

This label is NFC forum enabled.

Supplied as white 45mm x 28mm self-adhesive coated paper labels, on a roll.

Pricing is per label.

**Contactless MIFARE Classic label suitable for multiple application types. 1K byte of memory. Operates at 13.56 MHz. 45mm x 28mm.**

To buy, visit:

<https://www.smartcardfocus.com/shop/ilp/id~298/mifare-classic-1k-label-rectangular/p/index.shtml>

This Product Briefing has been produced by Dot Origin Ltd, the smart card experts behind SmartcardFocus.com. If you have a query email sales@smartcardfocus.com or call us on +44 (0)1428 685250.

## **MIFARE Classic cards & tags**

### **MIFARE Classic, RF Interface (ISO/IEC 14443 A)**

Operating distance: Up to 100mm

Operating frequency: 13.56 MHz

Data transfer: 106 kbit/s

Data integrity: 16 Bit CRC, parity, bit coding, bit counting

Typical ticketing transaction: <100 ms (including backup management)

### **EEPROM**

**MIFARE Classic 1K** - 1 Kbyte, organized in 16 sectors with 4 blocks of 16 bytes each (one block consists of 16 byte)

**MIFARE Classic 4k** - 4 Kbyte, organised in 32 sectors with 4 blocks and 8 sectors with 16 blocks (one block consists of 16 bytes)

User definable access conditions for each memory block

Data retention of 10 years

Write endurance 100.000 cycles

### **Security**

Mutual three pass authentication (ISO/IEC DIS 9798-2)

Individual set of two keys per sector (per application) to support multi-application with key hierarchy

Unique serial number for each device

A picture of the MIFARE Classic 1K thin keyfob is shown below.



**Manufacturer:** NXP