

MIFARE Classic 1K EV1 Card - Secure Origin



The MIFARE Classic 1K EV1 card from NXP operates at 13.56 MHz wireless frequency, according to the ISO 14443A standard, and contains 1K bytes of read/write memory that can be used for multiple applications. With additional originality check features, the latest EV1 chip is an improved and fully backwards-compatible version of the ever-popular MIFARE Classic card.

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

Supplied as blank white printable PVC cards to ISO standard size and thickness with a secure origin mark in one corner. This confirms that our cards contain only original NXP chips and use premium quality materials and production methods in order to ensure maximum performance, reliability and compatibility.

Contactless card suitable for multiple application types. 1K byte of memory. Operates at 13.56 MHz. With secure origin mark and latest EV1 features.

To buy, visit:

<https://www.smartcardfocus.com/shop/ilp/id~828/mifare-classic-1k-ev1-card-secure-origin/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