



HP038 is an RFID key fob made of PVC, a ductile thermoplastic material with high resistance to very high and low temperatures. Designed with a hole for a string, **it is rectangular in shape and the entire surface can be customised** using offset or pad printing and **epoxy printing**, while serial numbering can be applied using laser and inkjet techniques. It is available in **LF, HF and combo**

(LF+HF) frequencies and comes in white.

MARKETS

The **IP67** rating makes this key fob resistant to dust and water, such that it can be submerged to a depth of one metre for twenty-four hours. Because of this, HP038 is ideal for **access control and user identification in warm, damp environments such as gyms,**

swimming pools and spas, but also for access to hotels, campsites and tourist resorts. It can also be used as a **virtual wallet at vending machines, laundromats, self-service car washes and electric car charging posts.**



frequency 125 KHz

RFID features

| Chip | Memory | ISO Standard |
|------------------|--------------------------|-------------------|
| EM4100 or GK4100 | 0 bytes - UID: 8 bytes | - |
| EM4102 | 0 bytes - UID: 8 bytes | - |
| EM4200 | 0 bytes - UID: 8 bytes | ISO 11784 / 11785 |
| EM4550 or TITAN | 128 bytes - UID: 8 bytes | ISO 11784 / 11785 |
| EM4305 | 64 bytes - UID: 4 bytes | ISO 11784 / 11785 |
| ATA5577 or T5567 | 36 bytes - UID: 8 bytes | ISO 11784 / 11785 |
| Q5 or 5555 | 33 bytes - UID: 8 bytes | ISO 11784 / 11785 |
| HITAG1 | 256 bytes | - |
| HITAG2 | 32 bytes | ISO 11784 / 11785 |
| HITAG S 2048 | 256 bytes - UID: 4 bytes | ISO 11784 / 11785 |
| HITAG S 256 | 32 bytes - UID: 4 bytes | ISO 11784 / 11785 |
| SIC279 | 16/24 bytes | ISO 11784 / 11785 |
| S5777 | 28 bytes - UID: 8 bytes | ISO 15693 |



frequency 13.56 MHz

RFID features

| Chip | Memory | ISO Standard | NFC Standard |
|-----------------------------------|---------------------------|--------------|--|
| RF81 | 1024 bytes - UID: 4 bytes | ISO 14443 A | Not supported by majority of NFC devices |
| FM11RF08 | 1024 bytes - UID: 4 bytes | ISO 14443 A | Not supported by majority of NFC devices |
| RF005 | 64 bytes - UID: 7 bytes | ISO 14443 A | Not supported by majority of NFC devices |
| RF32 | 4096 bytes - UID: 4 bytes | ISO 14443 A | Not supported by majority of NFC devices |
| MIFARE CLASSIC 1K EV1 S50 | 1024 bytes - UID: 4 bytes | ISO 14443 A | Not supported by majority of NFC devices |
| MIFARE CLASSIC 1K EV1 S50 7 BYTES | 1024 bytes - UID: 7 bytes | ISO 14443 A | Not supported by majority of NFC devices |
| MIFARE CLASSIC 4K EV1 S70 | 4096 bytes - UID: 4 bytes | ISO 14443 A | Type 2 - tag compliant |
| MIFARE ULTRALIGHT EV1-1 | 48 bytes - UID: 7 bytes | ISO 14443 A | Type 2 - tag compliant |
| MIFARE ULTRALIGHT EV1-2 | 128 bytes - UID: 7 bytes | ISO 14443 A | Type 2 - tag compliant |
| MIFARE ULTRALIGHT C | 144 bytes - UID: 7 bytes | ISO 14443 A | Type 2 - tag compliant |
| MIFARE DESFIRE EV1 2K | 2048 bytes - UID: 7 bytes | ISO 14443 A | Type 4 - tag compliant |
| MIFARE DESFIRE EV1 4K | 4096 bytes - UID: 7 bytes | ISO 14443 A | Type 4 - tag compliant |
| MIFARE DESFIRE EV1 8K | 8192 bytes - UID: 7 bytes | ISO 14443 A | Type 4 - tag compliant |
| MIFARE DESFIRE EV2 2K | 2048 bytes - UID: 7 bytes | ISO 14443 A | Type 4 - tag compliant |
| MIFARE DESFIRE EV2 4K | 4096 bytes - UID: 7 bytes | ISO 14443 A | Type 4 - tag compliant |
| MIFARE DESFIRE EV2 8K | 8192 bytes - UID: 7 bytes | ISO 14443 A | Type 4 - tag compliant |
| MIFARE DESFIRE EV3 2K | 2048 bytes - UID: 7 bytes | ISO 14443 A | Type 4 - tag compliant |

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| MIFARE DESFIRE EV3 4K | 4096 bytes - UID: 7 bytes | ISO 14443 A | Type 4 - tag compliant |
| MIFARE DESFIRE EV3 8K | 8192 bytes - UID: 7 bytes | ISO 14443 A | Type 4 - tag compliant |
| MIFARE DESFIRE LIGHT | 640 bytes - UID: 7 bytes | ISO 14443 A | Type 4 - tag compliant |
| MIFARE PLUS SE | 1024 bytes - UID: 7 bytes | ISO 14443 A | Not supported by majority of NFC devices |
| MIFARE PLUS 2K | 2048 bytes - UID: 7 bytes | ISO 14443 A | Not supported by majority of NFC devices |
| MIFARE PLUS 4K | 4096 bytes - UID: 7 bytes | ISO 14443 A | Not supported by majority of NFC devices |
| MIFARE PLUS X 2K | 2048 bytes - UID: 7 bytes | ISO 14443 A | Not supported by majority of NFC devices |
| MIFARE PLUS X 4K | 4096 bytes - UID: 7 bytes | ISO 14443 A | Not supported by majority of NFC devices |
| MIFARE PLUS EV2 2K | 2048 bytes - UID: 7 bytes | ISO 14443 A | Not supported by majority of NFC devices |
| MIFARE PLUS EV2 4K | 4096 bytes - UID: 7 bytes | ISO 14443 A | Not supported by majority of NFC devices |
| ATC1024-MV110 | 944 bytes - UID: 8 bytes | ISO 15693 | Not supported by majority of NFC devices |
| ATC256-MV410 | 224 bytes - UID: 8 bytes | ISO 15693 | Not supported by majority of NFC devices |
| ATC4096-MP311 | 4096 bytes - UID: 7 bytes | ISO 14443 A | Not supported by majority of NFC devices |
| CTC4096-MP410 | 2984 bytes (advant) / 1002 bytes (prime) - UID: 4/7 bytes | ISO 14443 A | Not supported by majority of NFC devices |
| CTC4096-MM410 | 2984 bytes (advant) / 1002 bytes (prime) - UID: 4/7 bytes | ISO 15693 - ISO 14443 A | Not supported by majority of NFC devices |
| EM4233 | 256 bytes - UID: 8 bytes | ISO 15693 | Not supported by majority of NFC devices |
| ICODE SLI-S | 256 bytes - UID: 8 bytes | ISO 15693 | Type 5 - tag compliant |
| ICODE SLIX | 128 bytes - UID: 8 bytes | ISO 15693 | Type 5 - tag compliant |
| ICODE SLIX2 | 316 bytes - UID: 8 bytes | ISO 15693 | Not supported by majority of NFC devices |
| ICODE SLIX-S | 160 bytes - UID: 8 bytes | ISO 15693 | Type 5 - tag compliant |
| ICODE DNA | 252 bytes - UID: 8 bytes | ISO 15693 | Type 5 - tag compliant |
| MIM1024/PRIME | 1024 bytes | ISO 14443 A | Not supported by majority of NFC devices |
| MIM256/PRIME | 256 bytes | ISO 14443 A | Not supported by majority of NFC devices |
| NTAG210 | 48 bytes - UID: 7 bytes | ISO 14443 A | Type 2 - tag compliant |
| NTAG212 | 128 bytes - UID: 7 bytes | ISO 14443 A | Type 2 - tag compliant |
| NTAG213 | 144 bytes - UID: 7 bytes | ISO 14443 A | Type 2 - tag compliant |
| NTAG215 | 504 bytes - UID: 7 bytes | ISO 14443 A | Type 2 - tag compliant |
| NTAG216 | 888 bytes - UID: 7 bytes | ISO 14443 A | Type 2 - tag compliant |
| NTAG213 TT (TAG TAMPER) | 144 bytes - UID: 7 bytes | ISO 14443 A | Type 2 - tag compliant |
| NTAG413 DNA | 32/128 bytes - UID: 7 bytes | ISO 14443 A | Type 4 - tag compliant |
| NTAG424 DNA | 416 bytes - UID: 7 bytes | ISO 14443 A | Type 4 - tag compliant |
| ST25TV02K | 250 bytes - UID: 8 bytes | ISO 15693 | Type 5 - tag compliant |
| ST25TB512 | 64 bytes - UID: 8 bytes | ISO 14443 B | Type 4 - tag compliant |
| ST25TB04K | 512 bytes - UID: 8 bytes | ISO 14443 B | Type 4 - tag compliant |

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| ST25TB02K | 256 bytes - UID: 8 bytes | ISO 14443 B | Type 4 - tag compliant |
| TAG-IT 256 | 32 bytes - UID: 8 bytes | ISO 15693 | Type 5 - tag compliant |
| TAG-IT 2K | 256 bytes - UID: 8 bytes | ISO 15693 | Type 5 - tag compliant |
| MB89R118 | 2000 bytes - UID: 8 bytes | ISO 15693 | Not supported by majority of NFC devices |



frequency 125 KHz + 13.56 MHz

RFID features

| Chip | Memory | ISO Standard | NFC Standard |
|------------------------------------|--|---------------------------------|--|
| MIFARE CLASSIC 1K EV1 S50 + EM4100 | 1024 bytes (HF) + 0 bytes (LF) - UID: 4/7 bytes (HF) + 8 bytes (LF) | ISO 14443 A | Not supported by majority of NFC devices |
| MIFARE CLASSIC 1K EV1 S50 + EM4200 | 1024 bytes (HF) + 0 bytes (LF) - UID: 4/7 bytes (HF) + 8 bytes (LF) | ISO 14443 A + ISO 11784 / 11785 | Not supported by majority of NFC devices |
| MIFARE CLASSIC 4K EV1 S70 + EM4200 | 4096 bytes (HF) + 0 bytes (LF) - UID: 4 bytes (HF) + 8 bytes (LF) | ISO 14443 A + ISO 11784 / 11785 | Type 2 - tag compliant |
| MIFARE CLASSIC 1K EV1 S50 + T5567 | 1024 bytes (HF) + 36 bytes (LF) - UID: 4/7 bytes (HF) + 8 bytes (LF) | ISO 14443 A + ISO 11784 / 11785 | Not supported by majority of NFC devices |
| MIFARE CLASSIC 4K EV1 S70 + T5567 | 4096 bytes (HF) + 36 bytes (LF) - UID: 4 bytes (HF) + 8 bytes (LF) | ISO 14443 A + ISO 11784 / 11785 | Type 2 - tag compliant |
| MIFARE CLASSIC 1K EV1 S50 + 5555 | 1024 bytes (HF) + 33 bytes (LF) - UID: 4/7 bytes (HF) + 8 bytes (LF) | ISO 14443 A + ISO 11784 / 11785 | Not supported by majority of NFC devices |
| MIFARE CLASSIC 4K EV1 S70 + 5555 | 4096 bytes (HF) + 33 bytes (LF) - UID: 4 bytes (HF) + 8 bytes (LF) | ISO 14443 A + ISO 11784 / 11785 | Type 2 - tag compliant |
| RF81 + EM4200 | 1024 bytes (HF) + 0 bytes (LF) - UID: 4 bytes (HF) + 8 bytes (LF) | ISO 14443 A + ISO 11784 / 11785 | Not supported by majority of NFC devices |
| RF81 + T5567 | 1024 bytes (HF) + 36 bytes (LF) - UID: 4 bytes (HF) + 8 bytes (LF) | ISO 14443 A + ISO 11784 / 11785 | Not supported by majority of NFC devices |
| RF81 + 5555 | 1024 bytes (HF) + 33 bytes (LF) - UID: 4 bytes (HF) + 8 bytes (LF) | ISO 14443 A + ISO 11784 / 11785 | Not supported by majority of NFC devices |
| MIFARE DESFIRE 4K EV3 + EM4200 | 4096 bytes (HF) + 0 bytes (LF) - UID: 7 bytes (HF) + 8 bytes (LF) | ISO 14443 A + ISO 11784 / 11785 | Type 4 - tag compliant |
| MIFARE DESFIRE 8K EV3 + EM4200 | 8192 bytes (HF) + 0 bytes (LF) - UID: 7 bytes (HF) + 8 bytes (LF) | ISO 14443 A + ISO 11784 / 11785 | Type 4 - tag compliant |
| MIFARE DESFIRE 4K EV3 + ATA5577 | 4096 bytes (HF) + 36 bytes (LF) - UID: 7 bytes (HF) + 8 bytes (LF) | ISO 14443 A + ISO 11784 / 11785 | Type 4 - tag compliant |

Technical specifications

| | |
|--|----------------|
| Dimensions | 45 x 22 x 3 mm |
| Material | PVC |
| Weight | 0.5 g |
| Operation and storage temperature | -35°C ~ +75°C |

Customisation

| | |
|--------------------------|---|
| Colours | White |
| Type of printing | Offset printing, pad printing, epoxy printing |
| Type of numbering | Laser, inkjet technology |

