



# PRODUCT DATASHEET

## Advant ATC2048-MP110

ISO 14443A

**PAV Card**

Hamburger Strasse 6  
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**Chip manufacturer:** LEGIC®  
**Product:** Advant ATC2048-MP110

### Memory:

**EEPROM size:** 2048 bytes  
**Write endurance:** 100,000 cycles  
**Data retention:** 10 years  
**Organisation:** dynamic

### RF-Interface:

**Accordinging:** ISO 14443A  
**Frequency:** 13.56 MHz  
**Baudrate:** up to 106 kbit/s  
**Anticollision:** yes  
**Operating Distance:** up to 10 cm

**Please note:** Max. reading range depends on used RF standard, the requirements of national spectrum management authorities, reader application, antenna, transponder and

### Security:

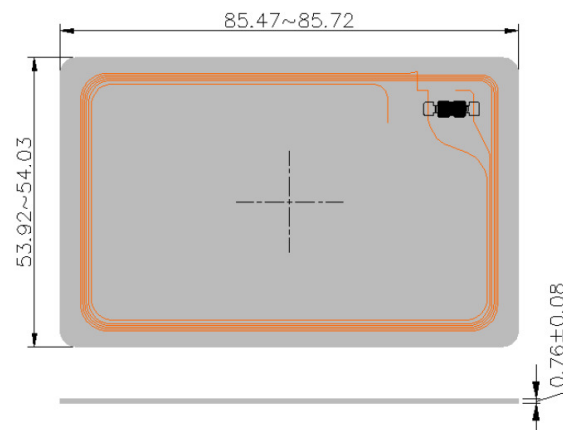
Unique Serial Number: 4 bytes  
SafelD: yes  
Key management: MTSC  
(per application)  
Data transfer encryption: DES, 3DES, LEGIC encryption  
(per application)  
Data storage encryption: DES, 3DES, LEGIC encryption  
(per application)  
Cryptographic authentication: 64 bit  
(per application)

### Special Features:

Max. number of applications: 123  
Memory segmentation: dynamic  
Application segment size: 16 - 1968 bytes

**subject to change without notice, errors excepted**

Contactless cards in standard ISO format.  
Produced according ISO 7810 / ISO 7816 - with advanced antenna and assembly technologies.



This picture shows a MCC2 module and its copper wire antenna. The contacting is realized by thermo compression-welding.

PVC is the standard material for contactless cards. Generally we can produce cards with other materials like PET, PEC, PC or composite. These alternative materials are on request.

We provide PVC cards with glossy or matt surface. The glossy surface allows the customer to personalise the cards by printing.

Additionally a microcontroller (contact chip) and/or magnetic strip (HiCo, LoCo) can be used for multiusage cards.

### Additional Services:

#### Security:

- hologram
- signature panel
- magnetic stripe (incl. encoding)
- barcode
- UV printing

#### Chip encoding:

- encoding of contactless chip

#### Personalisation:

- thermo transfer / dye sublimation
- laser lettering
- embossing
- digital printing

#### Printing technologies:

- (UV-)offset printing
- silk-screen printing
- digital printing

#### Thermo rewrite function:

- thermo rewrite foil (optional one side covered or as stripe)