

Innovative and cost-efficient identification via ISO 15693



- ✓ Full MTSC compatibility
- ✓ Communicate via ISO 15693
- ✓ Use modern encryption algorithms

Secure smartcard IC at low cost

LEGICs advant smartcard ICs offer a high security level at low cost. They are therefore ideal for high volume projects and are the perfect choice for secure and competitive applications.

Competitive RFID solutions

The combination of a wide reading distance, good transaction speed and a powerful, modern security architecture form the basis for reliable and competitive RFID solutions. These smartcard ICs are the best choice for all who want to migrate from older, less secure contactless chips to modern, highly secure ones without incurring any economic disadvantages.

Security & reading distance

Grain 128a or 3DES authentication and encryption form the basic pro-

tection of today and tomorrow. The modern chips offer a higher level of security and a longer reading distance than comparable ISO 15693 products and are therefore the ideal solutions for little money.

Many applications

LEGICs smartcard ICs fulfill all the requirements for the hotel industry and are the preferred choice for contactless hotel key cards. Anti-fake labelling chips, often use no or older security mechanisms. The LEGIC advant smartcard ICs have a special low-power encryp-

tion which does not jeopardize the long reading distance.

City cards are used as electronic travel cards, payment, customer or gift cards. The chip used is equipped with enough memory space, has a wide reading distances for good user experience and trusted security.



ATC256-MV410

Its big range and good encryption makes the ATC256-MV410 an excellent ISO 15693 chip. It achieves a security level in the ISO 15693 world as it was only possible in ISO 14443 A until now. The 224 byte memory is suitable for a variety of applications.

ATC1024-MV010

With its 3DES authentication, the 1k byte smartcard IC with ISO 15693 achieves a comparable security level to ISO 14443 A. The smartcard IC offers memory for a maximum of 59 applications at a good reading distance.

Technical data

	ATC256-MV410	ATC1024-MV010
RF standard	ISO 15693	ISO 15693
Memory size (Byte)	224	912
UID (Byte)***	8	8
Safe ID	Yes	Yes
Range**	Up to 70 cm	Up to 10 cm
Key management (per application)	Master-Token System-Control	Master-Token System-Control
Data transfer encryption	Grain 128a	3DES
Data storage encryption (per application)	AES (128/256 Bit), 3DES, LEGIC encryption	AES (128/256 Bit), 3DES, LEGIC encryption
Cryptographic authentication (per application)***	128 Bit	112 Bit
Max. number of applications *	12	59
Memory segmentation	Dynamic	Dynamic
Application segment size	Variable	Variable
Data retention (min.)	10 years	10 years
EEPROM cycles (min.)	100,000	100,000
Baud rate (kbit/s)	Up to 26.48	Up to 26.48
Delivery form	Wafer	Wafer

* Memory size indications are nominal values. The effective max. number of applications is depending on the memory requirements of applied applications

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

*** Depends on RF standard