LEGIC

Powerful and secure identification on 13.56 MHz

- ✓ **Pre-configured key material as a standard**
- ✓ **Communicate via ISO 14443 A and ISO 15693**
- ✓ **Use modern encryption algorithms**

Smartcard IC with first-class security

The classic smartcard ICs for identification media such as smartcards, keys or watches. They are used in projects with increased security requirements. Thanks to standardized key management, readers and smartcard ICs communicate effortlessly and yet securely.

Powerful smartcard ICs

LEGICs advant smartcard ICs offer powerful, reliable and security compliant quality for contactless RFID solutions. LEGICs perfectly coordinated interaction between smartcard IC and reader IC enables fast and seamless integration into a wide variety of applications.

Security & encryption

Smartcard ICs come with pre-configured, confidential key material as a standard and can be customized to meet customer requirements. LEGIC advant uses modern encryp-tion methods and supports with the MTSC (Master-Token System-Control) a unique security and authorization solution with scalable security.

Multi-application

LEGICs advant smartcard ICs are the optimal foundation for the combination of applications: from access control, time & attendance to cashless payment, printer management and e-ticketing. Third-party applications can also be integrated on the chip.

Applications on the medium of your choice

With advant, you have the free choice of smartcard (badge), key fob or watch as an identification media. Thanks to the flexible multi-application, up to 127 applications can be freely combined.
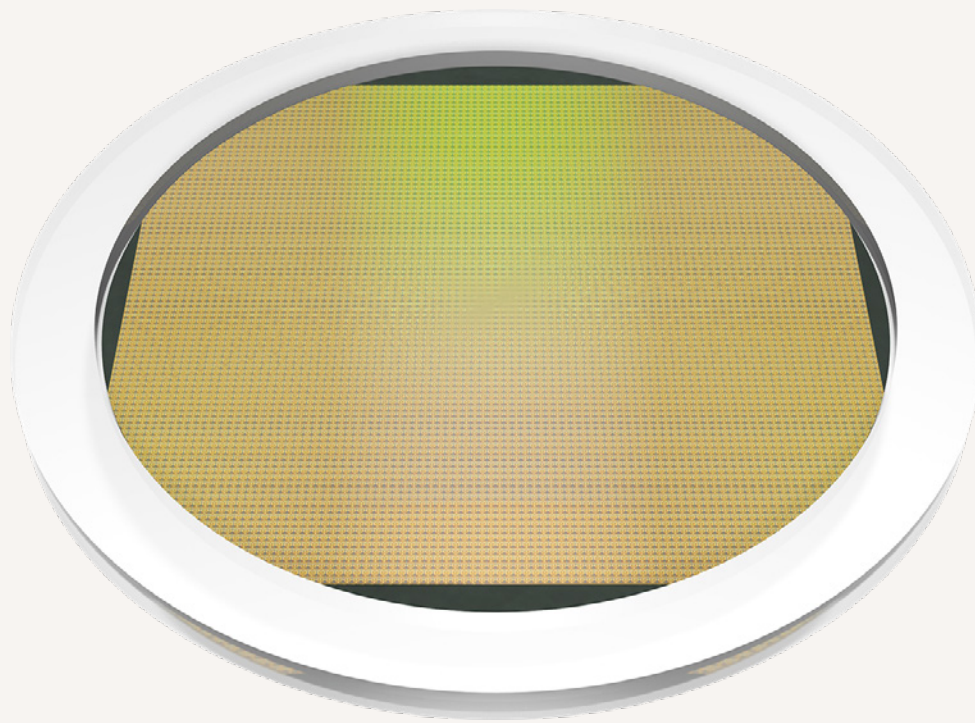
ATC1024-MV110

It is the solution for long reading distances. The ATC1024-MV110 with 1k byte memory communicates via ISO 15693 and is the smartcard IC for simple ID solutions with a clear number of applications.

ATC4096-MP311

This chip is ideal for high security requirements, for reading distances up to 10 cm and up to 127 applications on one chip (4k byte memory). The ATC4096-MP311 hardware is certified according to Common Criteria EAL4+ and therefore protected against attacks. The chip communicates via ISO 14443 A.

Technical data

	ATC1024-MV110	ATC4096-MP311
RF standard	ISO 15693	ISO 14443 A
Memory size (Byte)	944	4096
UID (Byte) ***	8	7
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	64 Bit key	3DES
Data storage encryption (per application)	3DES, DES, LEGIC encryption	AES (128/256 Bit), 3DES, DES, LEGIC encryption
Max. number of applications *	59	127
Memory segmentation	Dynamic	Dynamic
Application segment size	Variable	Variable
Data retention (min.)	10 years	10 years
EEPROM cycles (min.)	100,000	500,000
Baud rate (kbit/s)	Up to 26.48	Up to 424
Delivery form	Wafer	MOA4 Modul Wafer
Certified hardware platform	–	CC EAL4+

* Memory size indications are nominal values. The actual max. number of applications depends on the memory requirements of applied applications

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

*** Regardless of the platform used

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