



Contactless EMV cards

Contactless technology gives consumers faster and more convenient ways to pay. Initially deployed as the perfect solution for low value transactions, it has evolved and is now displacing cash in the high value payments arena as well. Gemalto offers next-generation solutions for dual-interface cards and related form factors with optimized chips and operating systems for high-level security, and best-in-class RF performances and transaction times.

The Gemalto EMV contactless card & payment portfolio give issuers an innovative and secure way to penetrate new markets – cash, the young, the unbanked – and boost transactions to generate additional revenue streams.

It is further enhanced by a comprehensive after-sales service that assists with deployment, and provides on-site training and customer support.

- > Clarista Contactless
- > Optelio and Desineo Contactless
- > Transit solution with EMV Contactless cards
- > Complete solutions with new form factors

Clarista Contactless

Our Clarista range provides high-performance next generation cards with enhanced features for super-fast transactions. They are highly cost-effective for mass EMV-contactless deployments with a dual-interface card option for MasterCard, Visa and Amex issuers.

- > Supports MasterCard MChip Paypass and M/chip Advance, VISA PayWave, American ExpressPay
- > Type A/Mifare Classic 1K
- > 16K EEPROM
- > Multi-sourcing for secure supply

Optelio Contactless

The Optelio Contactless brand includes advanced payment cards with the option to add specific and enhanced card functionalities. Gemalto's innovative solution offers an extensive range of the latest card applications to attract new customers and boost usage. Dual-interface cards for MasterCard, Visa and Amex issuers support the same EMV Applications as Clarista but offering additional features like transit/access or PKI applications to be combined with the EMV usage as well as more memory for data and full size antenna option.

Desineo Contactless

- > Desineo Contactless is our fully customizable payment cards solution that enables customers to have cards built to their exact specifications.
- > Applications/specifications supported include Interac Flash (Canada) Cartes Bancaires (France), PBOC (China) and many local applications (Thailand, Indonesia etc)
- > Gemalto can help customers to define their needs and develop products based on projects and volumes.

- > Transit applications
 - Mifare Classic 1K/4K, Mifare Plus, Desfire EV1 (2K, 4K), Calypso Rev 3, local applications
- > Contactless protocol selection – Type A or B
- > User memory – 16K, 36K or 72K
- > Multi-applications –PKI (Classic IAS) with the ability to load any third party application
- > Multi-sourcing for secure supply

Transit

Transit is a key field of application for dual interface cards. It enables consumers to become familiar with the convenience of contactless payment on a repeated and frequent usage, and also enables one card to be used for multiple applications. Gemalto Clarista and Optelio Contactless solutions can be applied to a multitude of applications, including the combination of payment and transport, to meet the requirements of any country or city.

- > Open loop payment in transit – Pay@Gate acceptance – an Open Loop EMV application that enables transport payment directly at the gate using interoperable payment cards
- > Shared cards – these can support proprietary applications on top of an EMV application based on the market's largest standard applications (Mifare, Desfire, Calypso) and local applications through local applets (Singapore, Taiwan, Korea etc)



New form factors

The Gemalto EMV Contactless portfolio also includes new contactless form factors, such as stickers, tags and wearables. These increase the opportunities for contactless payment and give consumers fun ways of paying for goods and services, so boosting public awareness and maximizing take-up.

New form factors use the same operating systems and applications as cards, enabling a consistent approach and easy implementation.

Wearables, stickers and tags are being deployed at events and festivals. The technology is convenient and easy to use, making it ideal for wearing on the beach, buying drinks at a stadium or for accessing a venue.

The best partner for all your contactless projects

To date, Gemalto has supplied more than 1 billion EMV contactless cards globally and has more than 100 customers around the world, delivering its unique knowledge and experience of contactless deployment. It is recognized for its technological expertise, its reliability and its contactless implementation know-how.

As the first dual-interface products certified by both Visa and MasterCard, Gemalto's highly reliable cards have been adopted in all major markets including the UK, Australia, Turkey, Poland, Canada, Spain, France, Germany, Taiwan, Korea and Malaysia.



 [GEMALTO.COM](https://www.gemalto.com)

THALES

gemalto
a Thales company