



“The new Advantis Crypto product reduces the personalization times and alllows the risk management”

Crypto Duo

Freedom of Choice



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Advantis

“ 1,400 million cards issued in the world have the Advantis technology, with a strong presence in America and Europe ”

Leadership and Reliability



“ 25 years of expertise as a processor, domestic scheme and acquiring network ”

Advantis is a multiapplication issuance solution EMV chip, which enables the processing of a financial transactions, through different smart devices.

The **Advantis Crypto** family provides greater security thanks to its robust DDA / CDA authentication.

The new **Advantis Crypto Duo** product improves personalization times and fraud management.



Advantages

“ Advantis Crypto Duo allows different configurations to suit customer and market requirements ”

Freedom of Choice

“ Advantis **Crypto Duo** is an open platform available for different card manufacturers and personalizers, providing a more choice and a more competitive offer ”



○ **MULTI-BRAND**

Advantis Crypto Duo solution incorporates two payment applications: Visa and MasterCard providing greater flexibility and cost savings.

○ **MULTI-APPLICATION**

The Advantis Crypto Duo operating system provides financial institutions with a single technological platform that is independent of the financial application (credit/debit) to be used, and of the non-financial applications that add value to the card.

○ **MULTI-PROVIDER**

The Advantis Crypto Duo operating system is compatible with numerous card manufacturers and personalizers, which mean card issuers are free to choose from a wider range of suppliers.

○ **SUPPORT**

Advantis Crypto Duo provides technical support throughout the lifecycle of the card. This includes: profile definition, brand certifications, update to the latest versions and responds to any incident.



Features

“The new Advantis Crypto Duo provides value improving the security and shortens the personalization times”

Advantis Crypto Duo Value

ELECTRONIC PURSE

- Incorporates the electronic purse, rechargeable prepaid application based on money or points storing.

RISK MANAGEMENT

- The fraud management is centralized in a single application for multi-application cards; EMV keys and offline limits are handled in a grouped way despite having several applications /AID.



MULTIAPPLICACIÓN

- It includes the Visa and MasterCard financial applications on the same chip to use according to the needs.

PERSONALIZATION

- It allows reduces the personalization times for multi-application cards by incorporating Multi-Access and Datasharing functionality.



Applications

“Advantis Crypto Duo incorporates the Visa and MasterCard payment applications and electronic purse”

Financial and Non-financial applications


“Advantis Crypto Duo, offers freedom of choice incorporating two payment applications on the same chip and adapting to the customer's needs”



Financial applications

EMV debit/credit

VIS to Visa **VISA**

M/Chip Advance application 

Advantis proprietary electronic purse

Non-financial applications

Storage, viewing and retrieval of data

Medical, labour and administrative histories

Consulting notes and files

OTP applications

Points inventory and follow up

Loyalty programmes

Physical access control



Support

“Advantis Crypto Duo participates in EMV specification development, which allows us to offer a superior level of support”

Technical support throughout the value chain

“Simplicity and customer support are the reason for being of **Advantis**”

TECHNICAL SUPPORT / TOOLS

SMART CARD

SOFTWARE

- Advantis proprietary operating system
- Financial and Non-financial applications

PRE-PERSONALIZATION

- Specifications for pre.personalization
- Pre-personalization key delivery

PERSONALIZATION

- Specifications for personalization
- Personalization file with validation data
- Models of profiles for different Visa debit /credit applications
- EMV personalization file generation tool
- Personalization key delivery
- Support to adapt the personalization systems
- Advantis PersoBuilder: It facilitates the personalization and allows you to configure different scenarios

POST-PERSONALIZATION

- Explorer Advantis: It allows you to view internal data in the card
- Validator Advantis: It allows you to verify if the data entered on the card are correct



Specifications

Especificaciones técnicas

TECHNICAL SPECIFICATIONS

Operating System	Advantis Crypto Duo
Flash Memory	18 kbytes

EMV APPLICATIONS

Specifications	EMV 4.3
Visa	VIS 1.5.4
Visa certification	30/01/2029
MasterCard	M/Chip Advance 1.2.3
MasterCard certification	25/04/2022
Off-line Authentication	DDA/CDA
EMV parameterizable application	YES

MULTI-APPLICATION

User memory (NVM) available for other applications	YES
Advantis proprietary electronic purse	YES
Access control	YES
Data storage	YES
OTP Applications	YES
Multi Access/Data sharing	YES

CARD FEATURES

Visa Security Review	YES
Communication protocol	T=0
Financial PIN	Clear / Encrypted Text
ISO 7816-3	YES

CRYPTOGRAPHIC CHARACTERISTICS

CVN Visa Support	10 y 18
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CHIP FEATURES

Chip	SLC32PCA300/SM88
Chip Supplier	Infineon



Freedom of choice