



PRODUCT OVERVIEW

Interface	Contact Smart Card												Dual-Interface Smart Card			
Offline Authentication	SDA, Plaintext PIN						DDA, Enciphered PIN						SDA, Plaintext PIN		DDA, Enciphered PIN	
Card Platform	Native		MULTOS StepOne		Global Platf. Java Card	Native		Global Platform Java Card			MULTOS 4.2			MULTOS StepOne	Global Platf. Java Card	MULTOS 4.2
EEPROM Size (bytes)	5k	8k	4k	8k	16k	8k	8k	16k	32k	32k	8k	16k	32k	8k	16k	32k
Product Name	EMV <i>Lite</i> Y	EMV <i>Plus</i> Y	MULTOS StepOne 4k	MULTOS StepOne 8k	GP-DES 16k	Vanelia	GP-PK 8k	GP-PK 16k	GP-PK 32k	SmartFoxPro	MULTOS 8k	MULTOS 16k	MULTOS 32k	MULTOS StepOne 8k Combi	GP-DI 16k	MULTOS 32k Combi
Operating System	Sagem Orga	Sagem Orga	MULTOS STepOne	MULTOS StepOne	JCOP10	Sagem Orga	JCOP 20	JCOP20	JCOP20	Sagem Orga	MULTOS 4.2	MULTOS 4.2	MULTOS 4.2	MULTOS StepOne	JCOP30	MULTOS 4.2
Mask Version	V1.0	V1.0	-	-	V2 VISA	2.0	V2 VISA	V2 VISA	V2 VISA	V1.0	-	KeyCorp I4D (1-1-9+)	KeyCorp I4D (1-1-9+)	-	V2 VISA	-
Silicon	Renesas AE420	Samsung S3CC9E8	Infineon SLE66C82P	Infineon SLE66C82P	Philips P8WE6017	Atmel AT90SC9608RC	Philips P8WE5009	Philips P8WE5017	Philips P8WE5033	Samsung S3CC9P9 (16bit)	Infineon SLE66CX80P	Infineon SLE66CX165P	Infineon SLE66CX322P	Infineon SLE66CL80P	Philips P8RF5016	Infineon SLE66CLX320P
Crypto-processor	3DES 112bits	3DES 112bits	3DES 112bits	3DES 112bits	3DES 112bits	3DES 112bits	3DES 112bits RSA 2048bits	3DES 112bits RSA 2048 bits	3DES 112bits RSA 2048bits	3DES 112bits RSA 2048bits (up to)	3DES 112bits RSA 2048bits	3DES 112bits RSA 2048bits	3DES 112bits RSA 2048bits	3DES 112bits	3DES 112bits RSA 2048bits	3DES 112bits RSA 2048bits
Protocol	T=0	T=0	T=0 T=1	T=0 T=1	T=0 T=1	T=0	T=0 T=1	T=0 T=1	T=0	T=0	T=0 T=1	T=0 T=1	T=0 T=1	T=0 T=1 T=CL	T=0 T=1 T=CL	T=0 T=1 T=CL
Application in ROM	VSDC (VIS1.4.0) M/Chip 4.0 PSE SmartyPlus Loyalty Welcome Real Time (XLS) CAP	VSDC (VIS1.4.0) M/Chip 4.0 PSE SmartyPlus Loyalty Welcome Real Time (XLS) CAP	VSDC (VIS1.4.0) M/Chip 4.0 MODS Welcome Real Time (XLS)	VSDC (VIS1.4.0) M/Chip 4.0 MODS Welcome Real Time (XLS)	VSDC2.4.0 VSDC2.4.1 PSE2.0	VSDC (VIS1.4.0) VSDC2.4.1 (on demand) S-Loyalty PSE2.0 CAP	VSDC2.4.0 VSDC2.4.1 (on demand) Visa Cash DES' PSE2.0	VSDC2.4.0 VSDC2.4.1 (on demand) Visa Cash DES' PSE2.0	VSDC2.4.0 VSDC2.4.1 (on demand) Visa Cash DES' PSE2.0	VSDC2.5 M/Chip 4.0 (on demand) PSE2.2 SmartyPlus Loyalty Welcome Real Time (XLS) CAP	VSDC (VIS1.4.0) M/Chip 2.05 M/Chip 4.0 Mondex Purse 2+ RS MODS KeyCorp PKI Seed (for Korea) Precise Biometrics "Match-On-Card" V1.00 Welcome Real Time (XLS)	VSDC (VIS1.4.0) M/Chip 2.05 M/Chip 4.0 J/Smart V2.0 Mondex Purse 2+ RS MODS KeyCorp PKI Seed (for Korea) Precise Biometrics "Match-On-Card" V1.00 Welcome Real Time (XLS)	VSDC (VIS1.4.0) M/Chip 2.05 M/Chip 4.0 J/Smart V2.0 Mondex Purse 2+ RS MODS KeyCorp PKI Seed (for Korea) Precise Biometrics "Match-On-Card" V1.00 Welcome Real Time (XLS)	VSDC (VIS1.4.0) M/Chip 2.05 M/Chip 4.0 Mondex Purse 2+ SR MODS KeyCorp PKI Precise Biometrics "Match-On-Card" V1.00 Welcome Real Time (XLS) PayPass	VSDC2.4.1 Visa Wave	VSDC (VIS1.4.0) M/Chip 2.05 M/Chip 4.0 Mondex Purse 2+SR MODS KeyCorp PKI Precise Biometrics "Match-On-Card" V1.00 Welcome Real Time (XLS) PayPass
Key Management Authority			KeyCorp LiteOS Control Centre	KeyCorp LiteOS Control Centre							Global	Global	Global	KeyCorp LiteOS Control Centre		Global
Specification & Standards	EMV4.0 EMV CPS	EMV4.0 EMV CPS	EMV4.0	EMV4.0 Global Platf. 2.0.1 Java 2.1.1	EMV3.1.1 Global Platf. 2.0.1 Java 2.1.1	EMV4.0 EMV CPS	EMV3.1.1 Global Platf. 2.0.1 Java 2.1.1	EMV3.1.1 Global Platf. 2.0.1 Java 2.1.1	EMV3.1.1 Global Platf. 2.0.1 Java 2.1.1	EMV4.0	EMV4.0	EMV4.0	EMV4.0	EMV4.0	EMV3.1.1 Global Platf. 2.0.1 Java 2.1.1	EMV4.0
Availability	Now	Q2Y06	Now	On Demand	Now	Now	Now	Now	Now	Now	On Demand	Now	Now	Now	Now	Now

Focused on Banking from head to toe

VISA Product Family

As a member of VISA's Global Smart Partner Program, Sagem Orga offers the complete spectrum of EMV smart cards for your VISA branded cards.

VISA Smart Debit and VISA Smart Credit (VSDC) based on VISA Integrated Circuit Card Specifications (VIS) is VISA's global initiative to help banks migrate from magnetic stripe cards to the more secure multi-application smart cards.

The power of the microcomputer on the smart card not only reduces card fraud and ongoing infrastructure cost, it also offers banks better differentiated multi-application card programs and service options for the cardholders.

Sagem Orga offers highly secure and innovative smart card products and services for the EMV banking market.

- Complete EMV smart card manufacturing facilities:
 - card printing
 - module manufacturing
 - card embedding
 - chip initialization and enablement
- Innovative ideas and technology to boost your card-marketing program:
 - artwork design
 - special effect card bodies
 - gold and palladium modules
 - coloured magnetic stripe
- Comprehensive EMV smart card training and consultancy to our customers and worldwide partners



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Product Quick Guide

