

About ACE Product Lines

About features

	ACE 2000 Alps	ACE 2000 Advanced	ACE 2000 Dual Interface	ACE 2007 Austria
MasterCard® EMV specifications	M/Chip Lite 4 v.1.1	M/Chip Select 4 v.1.1	PayPass™ M/Chip v.1.3 M/Chip Advance v.1.0	CPA Version 1.0
Visa EMV Specifications	VIS 1.4.1	VIS 1.4.0 VIS 1.5.1	VCPS v.2.0.2 VCPS v.2.1.1	CPA Version 1.0
Authentication Method	SDA	SDA DDA CDA	SDA DDA CDA	SDA DDA CDA
Pin verification	Offline plaintext	Offline enciphered & offline plaintext	Offline enciphered & offline plaintext, restrictions for contactless interface apply	Offline enciphered & offline plaintext, optionally distinct RSA key pair for PIN encryption
Transaction log	o	o	o	o

Many different types of cards are read millions of times each day at real and virtual points of sale. The future belongs to electronic payment and - to Austria Card customers.

One of the most important features of technological services is flexibility. For Austria Card customers it is not merely a wish, it's reality: ACE is customisable to meet individual requirements - right down to the last bit.

About capabilities

	ACE 2000 Alps	ACE 2000 Advanced	ACE 2000 Dual Interface	ACE 2007 Austria
EEPROM Size range	4 Kbytes	8-20 Kbytes	12-16 Kbytes	36 Kbytes
Additional capabilities				
Secure Messaging	o	o	o	o
Shared PIN	o	o	o	o
CAP/DPA	o	o	o	o
ISO/IEC 7816-4	o	o	o	o
Austria Card Loyalty System	o	o	o	o
Digital Signature		RSA		RSA, ECC, Common Criteria certified
MIFARE™ emulation			o	

About ACE AX product line

	ACE Advanced AX	ACE Dual Interface AX
EEPROM Size range	12-72 Kbytes	16-72 Kbytes
Authentication method	SDA, DDA, CDA	SDA, DDA, CDA
PIN verification	Offline enciphered & offline plaintext	Offline enciphered & offline plaintext, restrictions for contactless interface apply
Payment Applications	M/Chip VSDC	PayPass™ M/Chip M/Chip Advance VCPS / VSDC
Other applications	PKI, ISO 7816-4, customised Java Card™ applications	
MIFARE™ emulation		o

The open nature of ACE AX enables the card issuer to load applications from different vendors onto the card, all written according to the same set of specifications: Sun Microsystems Java Card™ specification and GlobalPlatform Card Specification provide a powerful basis used industry-wide for the design of smart card applications.