

## Small cards performing big

Smart cards: all-stars at the service of your IT security



ID Hardware

ID Client Security Software

ID Management Systeme

Good things come in small packages: they might not attract a lot of attention, but smart cards are highly efficient and versatile companions in our everyday lives. Who would want to do without them? Microprocessor smart cards, also known as smart cards, have their own operating system and cryptographic functionalities. This makes them the ideal partner for the protection of IT systems in all companies. Nowadays, it is especially "strong authentication" that plays an essential role: whoever wants to access an IT system must have the card and know the required PIN code. In addition to that, smart cards can also be equipped with biometrical functions, which leads to an even higher level of security.

Depending on the card type and the operating system, smart cards handle a large range of tasks for every business: they are used for digital signatures, they record working-time data and they offer payment functions. Smart cards are available as contact cards, contactless cards or hybrid or dual interface cards that combine both. As a general rule, smart cards are made of PVC, ABS, PC or PET. Different materials allow for different additional design options, e.g., adding holograms, magnetic stripes or laser engraving.

Technical specifications for smart cards

Smart card operating system	Chip platform	max. RSA key length	EEPROM (KB) on chip	Additional interfaces to ISO7816			Certifications		Supported standards			
				Contactless ISO 14443-4	MIFARE Emulation	USB 2.0 LS ISO 7816-12	Chip hardware	Card operating system	Global Platform	Java Card	Biometry	EMV
JCOP21 v2.3.1	P5CC036/72	2048 bit	36 or 72 KB	—	—	—	CC EAL5+	CC EAL4+*	2.1.1	2.2.1	—	•
JCOP31 v2.3.1	P5CD036/72	2048 bit	36 or 72 KB	•	1KB	—	CC EAL5+	CC EAL4+*	2.1.1	2.2.1	—	•
JCOP41 v2.3.1	P5CT072	2048 bit	72 KB	•	4KB	•	CC EAL5+	CC EAL4+	2.1.1	2.2.1	—	—
Sm@rtCafe Expert FIPS 64	AE46C1	2048 bit	68 KB	—	—	—	CC EAL5+	FIPS 140-2 level 3**	2.0.1'	2.2	—	—
Sm@rtCafe Expert 64 Bio	AE46C1	2048 bit	68 KB	—	—	—	CC EAL5+	—	2.0.1'	2.2	•	—
Starcos SPK2.3	P8WE5032	1024 bit	32 KB	—	—	—	ITSEC E4 high	ITSEC E4 high	—	—	—	—
i-COS 36	ST19XT34	1024 bit	34 KB	—	—	•	CC EAL4+	—	—	—	—	—
Starcos 3.0 CC	P5CC072	2048 bit	72 KB	—	—	—	CC EAL5+	CC EAL4+	—	—	—	—
Card OS 4.2 c	SLE66CX360 PE	2048 bit	36 KB	—	—	—	CC EAL5+	—	—	—	—	—
Card OS 4.4	SLE66CX680 PE	2048 bit	68 KB	—	—	—	CC EAL5+	CC EAL4+	—	—	—	—
Sm@rtCafe Expert 3.1	SLE66CX680 PE	2048 bit	68 KB	—	—	—	CC EAL5+	—	2.1.1	2.2.1	—	—
IDProtect v0106.8015.0508	AT90SC256 72RCT-USB	2048 bit	72 KB	—	—	•	CC EAL4+	FIPS 140-2 level 2+3	2.1.1	2.2.2	—	—

\* only for 72KB version / \*\*only for configuration 1 version  
• = available / — = not available



**The latest trend in the world of smart cards: everything on one card**

Today, many companies rely on multifunctional cards, using them for their in-house PKI as well as for a variety of other functions, thus combining "logical access" and "physical access". A cornucopia of options is available, especially when using JAVA-based operating systems. To equip smart cards with numerous additional functions, just add the required applets. Smart cards can also be used with proprietary operating systems, which are unparalleled in terms of speed. Independently of the operating system that is used, all smart cards need a card management system to manage all functions. Today's card management systems are very easy to use and integrate quickly into existing IT infrastructures. Thanks to an unprecedented global innovation introduced by IDpendant, all functions can now be managed with one single system. Please see our data sheet "Card Management Systems" for additional information.

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**24-hour protection for your business**

Beyond a doubt, there is nothing like smart cards to protect your company. Since every company has different needs, smart cards can be customized to meet your corporation's requirements. While they may often go unnoticed, smart cards are perfect partners when it comes to protecting your physical and intellectual property around the clock.

**The benefits of smart cards at a glance**

- Smart cards ensure the safety of your IT systems
- With smart cards, persons can unequivocally be identified and authenticated
- Thanks to PIN codes and/or biometrical data, smart cards are protected against manipulation
- Hybrid and dual interface smart cards combine "physical" and "logical" access and open up a large range of functionalities, all on one single card
- Smart cards are handy and convenient to use