Dual Interface BasicCard

Now with Contactless Interface

With the new Professional BasicCard ZC7.5, ZeitControl presents the smartest programmable smart card you've ever seen. While maintaining compatibility with previous BasicCards, ZeitControl has added a **contactless interface**. The contactless interface follows international standard I**SO14443**, to allow contactless communication using the **T=CL** protocol. Further, public key encryption has been enhanced to state-of-the-art security for today's and tomorrow's applications. This includes **RSA** encryption and signature algorithms with up to **4096-bit** key length, with on-card key generation; and **Elliptic Curve Cryptography** (ECC) over finite fields of type **GF(p),** with up to **512-bit** key length.

Features in detail:

	ZC7.5 (standard)	ZC7.5 (dual interface)
	Interface	
Interface	Contact interface according to ISO7816 (Part 1, 2, 3)	Contact and contactless interface according to ISO7816 (Part 1, 2, 3) and ISO14443 Type A (Part 1, 2, 3)
Supply Voltage (contact interface)	Class A (5V) and Class B (3V) according to ISO7816 (Part 3)	
Protocol	T=0 or T=1 according to ISO7816 (Part 3)	T=0, T=1 or T=CL according to ISO7816 (Part 3) and ISO14443 Type A (Part 4)
	Memory	
User RAM	2.9 kB	
User EEPROM	32 kB	
	Security and Encryption	
RSA	• According to PKCS #1 V2.0 • Key length up to 4096 bit • Key generation in card	
ECC	• According to ISO15946-1 • In finite field of type GF(p) • Key length up to 512 bit • Key generation in card	
AES	• According to FIPS 197 • Key length 128, 192 or 256 bits	
DES and Triple DES	• According to ANSI X3.92-1981 • Key length 56, 112 or 168 bits	
SHA	• According to FIPS 180-2 • SHA-1 and SHA-256	
Random Number Generator	• Hardware	