



Datasheet

MartSoft GlobalPlatform Smart Card

Compliant Card OS Standards	GlobalPlatform 2.0.1 and Java Card 2.1.1
Certifications	<input type="checkbox"/> FIPS 140-2 level 2 (certificate # 380) <input type="checkbox"/> Hardware: FCC EMC/EMI Class B <input type="checkbox"/> Hardware: EAL4+ certified
APIs and Interoperability	<input type="checkbox"/> Fully interoperable with Java Card 2.1.1, and/or GlobalPlatform 2.0.1 compliant applications and development tools, e.g. Aspects Developer, IBM JCOP, etc.
Cryptographic Functions	<input type="checkbox"/> Hardware accelerated DES, 3DES, RNG, Checksum, CRT/RSA (512, 768, 1024 bit), AES (on demand) <input type="checkbox"/> SHA-1, MD5, PRNG, on-card RSA key pair generation <input type="checkbox"/> PKCS#11 and Microsoft Cryptographic Service Provider (CSP) ready to integrate with applications on your computer
File / Application Selection	GlobalPlatform compliant selection by AID (Application ID) and partial AID
Card Content Management	GlobalPlatform compliant Package and Applet (application) loading and deletion through selected SD (Security Domain) (Issuer SD or application designated). Multiple SD is supported.
EEPROM Memory Management	Full reclaim of all memory after Package and Applet deletion.
Signal and Transmission Protocols	ISO/IEC-7816-3, ISO/IEC 7816-4: T=0, PPS speed enhancement
Hardware Device	Atmel AT90SC6464C-Pro
Card Security Features	<ul style="list-style-type: none">• Dedicated Hardware for Protection Against SPA/DPA Attacks• Advanced Protection Against Physical Attack• Environmental Protection Systems• Voltage Monitor• Frequency Monitor• Secure Memory Management/Access Protection (Supervisor Mode)
Flash / ROM	64KB
EEPROM	64KB (40KB available for customer use)
RAM	3KB (0.5K available for customer use)
Voltage	ISO/IEC 7816-1, ISO/IEC 7816-2 compliant
Development Tools	MartSoft offers her own GlobalPlatform Card development tool - GPAD. But MartSoft smart cards can also work with other development tools like IBM JCOP, Aspects IDE, etc.

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