NXP JCOP 4.1 V2.2.1

Card ATR: 3B:FA:18:00:00:81:31:FE:45:4A:43:4F:50:34:31:56:32:32:31:9D

Note: Card is probably without garbage collector - it is not possible to test all supported algorithms at once. When ceratin number of instances is allocated, further instances cannot be obtained, even when supported by card. Re-installation of whole applet is necessary.

Note: Unclear situation with AES support - AES Cipher object can be obtained, but not AESKey object. According to forums posts, AES is available in hardware, but is usually disabled (and cannot be re-enabled).

javacardx.crypto.Cipher	supported	time
ALG DES CBC NOPAD	yes	
ALG DES CBC ISO9797 M1	yes	
ALG_DES_CBC_ISO9797_M2	yes	
ALG_DES_CBC_PKCS5	no	
ALG_DES_ECB_NOPAD	yes	
ALG_DES_ECB_ISO9797_M1	yes	
ALG_DES_ECB_ISO9797_M2	yes	
ALG_DES_ECB_PKCS5	no	
ALG_RSA_ISO14888	no	
ALG_RSA_PKCS1	yes	
ALG_RSA_ISO9796	no	
ALG_RSA_NOPAD	yes	
ALG_AES_BLOCK_128_CBC_NOPAD	yes	
ALG_AES_BLOCK_128_ECB_NOPAD	yes	
ALG_RSA_PKCS1_OAEP	no	
ALG_KOREAN_SEED_ECB_NOPAD	no	
ALG_KOREAN_SEED_CBC_NOPAD	no	
javacard.crypto.Signature		
ALG_DES_MAC4_NOPAD	no	
ALG_DES_MAC8_NOPAD	yes	
ALG_DES_MAC4_ISO9797_M1	no	
ALG_DES_MAC8_ISO9797_M1	yes	
ALG_DES_MAC4_ISO9797_M2	no	
ALG_DES_MAC8_ISO9797_M2	yes	
ALG_DES_MAC4_PKCS5	no	
ALG_DES_MAC8_PKCS5	no	
ALG_RSA_SHA_ISO9796	yes	
ALG_RSA_SHA_PKCS1	yes	
ALG_RSA_MD5_PKCS1	yes	
ALG_RSA_RIPEMD160_ISO9796	no	
ALG_RSA_RIPEMD160_PKCS1	no	
ALG_DSA_SHA	no	
ALG_RSA_SHA_RFC2409	no	
ALG_RSA_MD5_RFC2409	no	
ALG_ECDSA_SHA	yes	
ALG_AES_MAC_128_NOPAD	yes	
ALG_DES_MAC4_ISO9797_1_M2_ALG3	no	
ALG_DES_MAC8_ISO9797_1_M2_ALG3	yes	
ALG_RSA_SHA_PKCS1_PSS	no	

		_
ALG_RSA_MD5_PKCS1_PSS	no	
ALG_RSA_RIPEMD160_PKCS1_PSS	no	
ALG_HMAC_SHA1	no	
ALG_HMAC_SHA_256	no	
ALG_HMAC_SHA_384	no	
ALG HMAC SHA 512	no	
ALG HMAC MD5	no	
ALG HMAC RIPEMD160	no	
ALG RSA SHA ISO9796 MR	no	
ALG RSA RIPEMD160 ISO9796 MR	no	
ALG SEED MAC NOPAD	no	
javacard.security.MessageDigest	•	
ALG SHA	yes	
ALG MD5	yes	
ALG_MD3 ALG_RIPEMD160	-	
_	no	
ALG_SHA_256	no	
ALG_SHA_384	no	
ALG_SHA_512	no	
javacard.security.RandomData		
ALG_PSEUDO_RANDOM	yes	
ALG_SECURE_RANDOM	yes	
javacard.security.KeyBuilder		
TYPE_DES_TRANSIENT_RESET	yes	
TYPE_DES_TRANSIENT_DESELECT	yes	
TYPE_DES LENGTH_DES	yes	
TYPE_DES LENGTH_DES3_2KEY	yes	
TYPE_DES LENGTH_DES3_3KEY	yes	
TYPE_AES_TRANSIENT_RESET	no	
TYPE_AES_TRANSIENT_DESELECT	no	
TYPE_AES LENGTH_AES_128	no	
TYPE_AES LENGTH_AES_192	no	
TYPE_AES LENGTH_AES_256	no	
TYPE_RSA_PUBLIC LENGTH_RSA_512	yes	
TYPE_RSA_PUBLIC LENGTH_RSA_736	yes	
TYPE_RSA_PUBLIC LENGTH_RSA_768	yes	
TYPE_RSA_PUBLIC LENGTH_RSA_896	yes	
TYPE RSA PUBLIC LENGTH RSA 1024	yes	
TYPE RSA PUBLIC LENGTH RSA 1280	yes	
TYPE RSA PUBLIC LENGTH RSA 1536	yes	
TYPE RSA PUBLIC LENGTH RSA 1984	yes	
TYPE RSA PUBLIC LENGTH RSA 2048	yes	
TYPE RSA PRIVATE LENGTH RSA 512	yes	
TYPE RSA PRIVATE LENGTH RSA 736	yes	
TYPE RSA PRIVATE LENGTH RSA 768	yes	
TYPE RSA PRIVATE LENGTH RSA 896	-	
TYPE_RSA_PRIVATE LENGTH_RSA_090 TYPE_RSA_PRIVATE LENGTH_RSA_1024	yes	
	yes	
TYPE_RSA_PRIVATE LENGTH_RSA_1280	yes	
TYPE_RSA_PRIVATE LENGTH_RSA_1536	yes	
TYPE_RSA_PRIVATE LENGTH_RSA_1984	yes	
TYPE_RSA_PRIVATE LENGTH_RSA_2048	yes	
TYPE_RSA_CRT_PRIVATE LENGTH_RSA_512	yes	
TYPE_RSA_CRT_PRIVATE LENGTH_RSA_736	no	l

TYPE_RSA_CRT_PRIVATE LENGTH_RSA_768 TYPE_RSA_CRT_PRIVATE LENGTH_RSA_896 TYPE_RSA_CRT_PRIVATE LENGTH_RSA_1024 TYPE_RSA_CRT_PRIVATE LENGTH_RSA_1280 TYPE_RSA_CRT_PRIVATE LENGTH_RSA_1536 TYPE_RSA_CRT_PRIVATE LENGTH_RSA_1984 TYPE_RSA_CRT_PRIVATE LENGTH_RSA_2048 TYPE_DSA_PRIVATE LENGTH_DSA_512 TYPE_DSA_PRIVATE LENGTH_DSA_768 TYPE_DSA_PRIVATE LENGTH_DSA_1024 TYPE_DSA_PUBLIC LENGTH_DSA_768 TYPE_DSA_PUBLIC LENGTH_DSA_768 TYPE_DSA_PUBLIC LENGTH_DSA_768	yes yes yes yes yes yes no no	
TYPE_RSA_CRT_PRIVATE LENGTH_RSA_1024 TYPE_RSA_CRT_PRIVATE LENGTH_RSA_1280 TYPE_RSA_CRT_PRIVATE LENGTH_RSA_1536 TYPE_RSA_CRT_PRIVATE LENGTH_RSA_1984 TYPE_RSA_CRT_PRIVATE LENGTH_RSA_2048 TYPE_DSA_PRIVATE LENGTH_DSA_512 TYPE_DSA_PRIVATE LENGTH_DSA_768 TYPE_DSA_PRIVATE LENGTH_DSA_1024 TYPE_DSA_PUBLIC LENGTH_DSA_512 TYPE_DSA_PUBLIC LENGTH_DSA_768 TYPE_DSA_PUBLIC LENGTH_DSA_1024	yes yes yes yes yes yes no	
TYPE_RSA_CRT_PRIVATE LENGTH_RSA_1280 TYPE_RSA_CRT_PRIVATE LENGTH_RSA_1536 TYPE_RSA_CRT_PRIVATE LENGTH_RSA_1984 TYPE_RSA_CRT_PRIVATE LENGTH_RSA_2048 TYPE_DSA_PRIVATE LENGTH_DSA_512 TYPE_DSA_PRIVATE LENGTH_DSA_768 TYPE_DSA_PRIVATE LENGTH_DSA_1024 TYPE_DSA_PUBLIC LENGTH_DSA_512 TYPE_DSA_PUBLIC LENGTH_DSA_768 TYPE_DSA_PUBLIC LENGTH_DSA_1024	yes yes yes yes no no	
TYPE_RSA_CRT_PRIVATE LENGTH_RSA_1536 TYPE_RSA_CRT_PRIVATE LENGTH_RSA_1984 TYPE_RSA_CRT_PRIVATE LENGTH_RSA_2048 TYPE_DSA_PRIVATE LENGTH_DSA_512 TYPE_DSA_PRIVATE LENGTH_DSA_768 TYPE_DSA_PRIVATE LENGTH_DSA_1024 TYPE_DSA_PUBLIC LENGTH_DSA_512 TYPE_DSA_PUBLIC LENGTH_DSA_768 TYPE_DSA_PUBLIC LENGTH_DSA_1024	yes yes yes no no	
TYPE_RSA_CRT_PRIVATE LENGTH_RSA_1984 TYPE_RSA_CRT_PRIVATE LENGTH_RSA_2048 TYPE_DSA_PRIVATE LENGTH_DSA_512 TYPE_DSA_PRIVATE LENGTH_DSA_768 TYPE_DSA_PRIVATE LENGTH_DSA_1024 TYPE_DSA_PUBLIC LENGTH_DSA_512 TYPE_DSA_PUBLIC LENGTH_DSA_768 TYPE_DSA_PUBLIC LENGTH_DSA_1024	yes yes no no	
TYPE_RSA_CRT_PRIVATE LENGTH_RSA_2048 TYPE_DSA_PRIVATE LENGTH_DSA_512 TYPE_DSA_PRIVATE LENGTH_DSA_768 TYPE_DSA_PRIVATE LENGTH_DSA_1024 TYPE_DSA_PUBLIC LENGTH_DSA_512 TYPE_DSA_PUBLIC LENGTH_DSA_768 TYPE_DSA_PUBLIC LENGTH_DSA_1024	yes no no	
TYPE_DSA_PRIVATE LENGTH_DSA_512 TYPE_DSA_PRIVATE LENGTH_DSA_768 TYPE_DSA_PRIVATE LENGTH_DSA_1024 TYPE_DSA_PUBLIC LENGTH_DSA_512 TYPE_DSA_PUBLIC LENGTH_DSA_768 TYPE_DSA_PUBLIC LENGTH_DSA_1024	yes no no	
TYPE_DSA_PRIVATE LENGTH_DSA_768 TYPE_DSA_PRIVATE LENGTH_DSA_1024 TYPE_DSA_PUBLIC LENGTH_DSA_512 TYPE_DSA_PUBLIC LENGTH_DSA_768 TYPE_DSA_PUBLIC LENGTH_DSA_1024	no no	
TYPE_DSA_PRIVATE LENGTH_DSA_1024 TYPE_DSA_PUBLIC LENGTH_DSA_512 TYPE_DSA_PUBLIC LENGTH_DSA_768 TYPE_DSA_PUBLIC LENGTH_DSA_1024		
TYPE_DSA_PUBLIC LENGTH_DSA_512 TYPE_DSA_PUBLIC LENGTH_DSA_768 TYPE_DSA_PUBLIC LENGTH_DSA_1024	no	
TYPE_DSA_PUBLIC LENGTH_DSA_768 TYPE_DSA_PUBLIC LENGTH_DSA_1024		
TYPE_DSA_PUBLIC LENGTH_DSA_1024	no	
	no	
	no	
TYPE_EC_F2M_PRIVATE LENGTH_EC_F2M_113	yes	
TYPE_EC_F2M_PRIVATE LENGTH_EC_F2M_131	yes	
TYPE_EC_F2M_PRIVATE LENGTH_EC_F2M_163	yes	
TYPE_EC_F2M_PRIVATE LENGTH_EC_F2M_193	yes	
TYPE_EC_FP_PRIVATE LENGTH_EC_FP_112	no	
TYPE_EC_FP_PRIVATE LENGTH_EC_FP_128	no	
TYPE_EC_FP_PRIVATE LENGTH_EC_FP_160	no	
TYPE_EC_FP_PRIVATE LENGTH_EC_FP_192	no	
TYPE_KOREAN_SEED_TRANSIENT_RESET	no	
TYPE_KOREAN_SEED_TRANSIENT_DESELECT	no	
TYPE_KOREAN_SEED LENGTH_KOREAN_SEED_128	no	
TYPE_HMAC_TRANSIENT_RESET	no	
TYPE_HMAC_TRANSIENT_DESELECT	no	
TYPE_HMAC LENGTH_HMAC_SHA_1_BLOCK_64	no	
TYPE_HMAC LENGTH_HMAC_SHA_256_BLOCK_64	no	
TYPE_HMAC LENGTH_HMAC_SHA_384_BLOCK_64	no	
TYPE_HMAC LENGTH_HMAC_SHA_512_BLOCK_64	no	
javacard.security.KeyPair ALG_RSA on-card generation		
ALG_RSA LENGTH_RSA_512	no	
ALG_RSA LENGTH_RSA_736	no	
ALG_RSA LENGTH_RSA_768	no	
ALG_RSA LENGTH_RSA_896	no	
ALG_RSA LENGTH_RSA_1024	no	
ALG_RSA LENGTH_RSA_1280	no	
ALG_RSA LENGTH_RSA_1536	no	
ALG_RSA LENGTH_RSA_1984	no	
ALG_RSA LENGTH_RSA_2048	no	
javacard.security.KeyPair ALG_RSA_CRT on-card generation		
ALG_RSA_CRT LENGTH_RSA_512	yes	0.531
ALG_RSA_CRT LENGTH_RSA_736	no	
ALG_RSA_CRT LENGTH_RSA_768	yes	0.859
ALG_RSA_CRT LENGTH_RSA_896	yes	2.281
ALG_RSA_CRT LENGTH_RSA_1024	yes	2.422
ALG RSA CRT LENGTH RSA 1280	yes	3.266
	yes	17.953
ALG_RSA_CRT LENGTH_RSA_1536		
ALG_RSA_CRT LENGTH_RSA_1536 javacard.security.KeyPair ALG_DSA on-card generation		
ALG_RSA_CRT LENGTH_RSA_1536 javacard.security.KeyPair ALG_DSA on-card generation ALG_DSA LENGTH_DSA_512	no	

ALG_DSA LENGTH_DSA_1024	no	
javacard.security.KeyPair ALG_EC_F2M on-card generation		
ALG_EC_F2M LENGTH_EC_F2M_113	yes	0.703
ALG_EC_F2M LENGTH_EC_F2M_131	yes	0.703
ALG_EC_F2M LENGTH_EC_F2M_163	yes	0.719
ALG_EC_F2M LENGTH_EC_F2M_193	yes	0.797
javacard.security.KeyPair ALG_EC_FP on-card generation		
ALG_EC_FP LENGTH_EC_FP_112	no	
ALG_EC_FP LENGTH_EC_FP_128	no	