

JAVIQ[®]

JavaCard™ Operating System
FOR PROGRAMMABLE SMART CARD

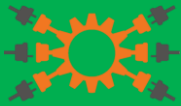


JAVIQ runs Javacard applets

on high-performance IC designed for various applications



Advanced Access
control applets



Easy-to-integrate
and Interoperable



Telecommunication
SIM M2M eUICC



EMV CPA
Payment applets



Support for
applet development



Biometric
Identification applets

JaviQ is a GlobalPlatform™ JavaCard solution ported on Flash Integrated Circuit. Following reference standards, **JaviQ** ensures ease of integration and interoperability across different industries.

JaviQ allows to easily load applets addressing multiple projects, either written by third-party or Qilium team, these applications can be integrate in:

- Enterprise physical and logical access control
- Payment
- Telecommunication

GENERAL FEATURES

➤ JavaCard 3.0.4

- Javacard Static Support
- Integer Support
- Standard JavaCard APIs
- SIM APIs

➤ GlobalPlatform 2.1.1

- SCP02
- SCP80

➤ Communication

- ISO/IEC 7816-3
- T=0

SECURITY FEATURES

➤ JavaCard algorithms

- DES | 3DES
- AES-128 | AES-192 | AES-256 bit
- CRC16 | CRC32
- SHA-1 | SHA-224 | SHA-256
- MD5

TELECOMMUNICATON

➤ SIM | (U)SIM

- 3GPP TS 51.011 (R5)
- 3GPP TS 31.101 (R11)
- 3GPP TS 31.102 (R12)

➤ STK | CAT

- 3GPP TS 51.014 (R4)
- 3GPP TS 31.111 (R6)

➤ RFM | RAM

- 3GPP TS 23.048 (R5)
- 3GPP TS 31.115 (R12)
- 3GPP TS 31.116 (R11)

➤ ISIM | HPSIM

- 3GPP TS 31.103 (R12)
- 3GPP TS 31.104 (R12)

➤ SmartTrust WIB 1.3

➤ SIMalliance S@T v4.0.0

STANDARD CONFIGURATION

Type	User memory	RAM	Endurance	Data retention	T°
Standard	29KB	3.5 KB	100K	10 years	-25 to + 85 °C
	74KB	5 KB			
	254 KB	10 KB			
	31 KB	5 KB			
	35 KB	4 KB	500K	25 years	
	127 KB	5 KB			
	131 KB	5 KB			
	243 KB	10 KB			

TELECOMMUNICATION CONFIGURATION

Type	Feature	User memory	RAM	Endurance	Data Retention	T°
SIM	-	44 to 55 KB	3.5 to 4 KB	100K	10 years	-25 to + 85 °C
USIM	WIB	33 to 226 KB	3.5 to 10 KB	100 to 500K	10 to 25 years	
	S@T	68 to 238 KB	4 to 10 KB			
LTE	WIB	61 to 177 KB	4 to 10 KB		25 years	
	S@T	83 to 194 KB	4 to 10 KB			
	CSIM	98 to 208 KB	4 to 10 KB			
M2M	-	143 to 392 KB	8 to 12 KB	500K		-40 to +105 °C

PACKAGING

TYPE	FEATURE	6-PINS MODULE	8-PINS MODULE	MFF2 VQFN-8	1-2-3-4 FF SMART CARDS	COMMUNICATION
STANDARD						
Standard	-	X	X		X	T=0
TELECOMMUNICATION						
SIM	-	X	X		X	
USIM	WIB	X	X		X	
	S@T	X	X		X	
LTE	WIB	X	X		X	T=0
	S@T	X	X		X	
	CSIM	X	X		X	
M2M	-	X	X	X	X	