



Model 330J JavaCard

The Model 330J is Datakey's Java-based smart card, designed to the JavaCard v2.1.1 and Global Platform v2.0.1 specifications.

The Model 330J card features Datakey's JCCOS operating system applet (Java-based Cryptographic Card Operating System) – a highly efficient cryptographic and data management application, built-in to Read-Only Memory (ROM). With this built-in applet that supports a broad range of IT and security applications, the Model 330J card saves most of its 32K EEPROM for other applications and data storage and enables rapid card deployment by virtually eliminating application personalization.



In addition to supporting Global Platform v2.0.1 for applet loading and deletion, the card's architecture allows for simple management of digital credentials in the field by giving users the ability to modify the data-only contents of their own card (as allowed by an organization's security policy).

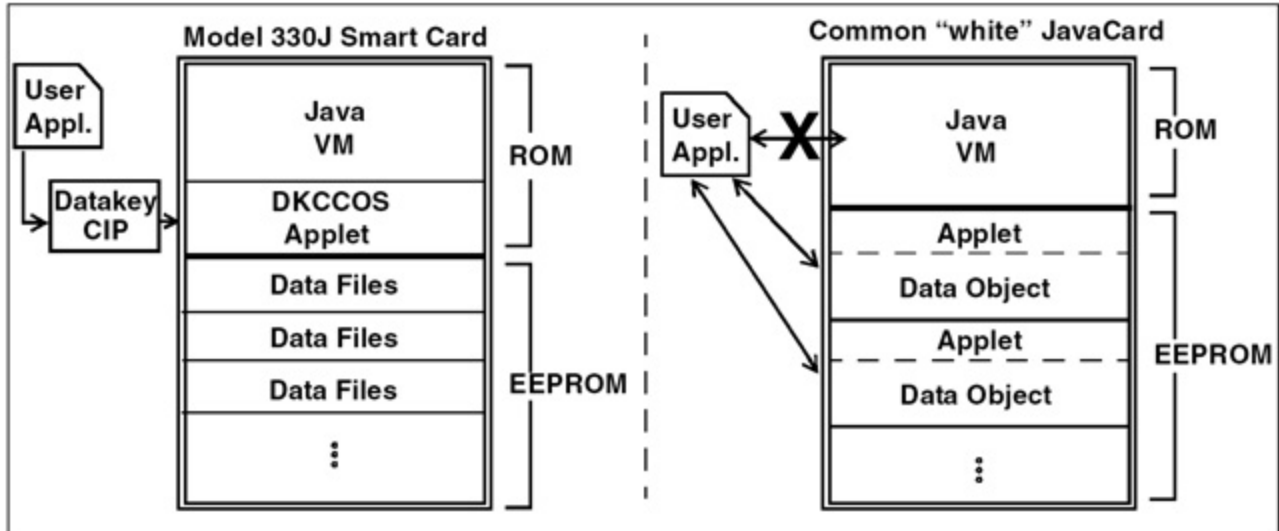
Datakey's Model 330J also meets GSC-IS native card-edge interface requirements. The Model 330J is an ideal card platform for emerging government smart ID programs where broad interoperability, rapid deployment and future expandability are key requirements.

Features

- ISO-compliant (7816) smart card format
 - Designed for seamless operation with PKCS #11 and MS-CAPI interfaces
 - Compliant to FIPS 140-2 Level 2
 - Cryptographic co-processor for improved performance and speed
 - Smart card operating system applet in 96K ROM
 - 32K EEPROM for secure storage of keys, certificates, passwords, applications and data
 - Meets GSC-IS interoperability specifications
 - Implements public key functions:
 - RSA sign/decrypt (1024-bit and 2048-bit keys)
 - SHA-1 cryptographic functions
 - DES/3DES encrypt
 - Hardware and software protection against differential power attacks and timing attacks
-



Model 330J Architecture



Datakey designed the Model 330J to provide built-in cryptographic and data container management functions while giving enterprises the ability to add new applications in the future. So Datakey created a high security, high performance cryptographic application that is embedded in ROM instead of EEPROM, providing many advantages from a security, use or memory, deployment and card management perspective, including:

- **Efficient use of memory** – Only the data objects created and used by the built-in cryptographic application are stored in EEPROM; no memory space is used for overhead for cryptographic applets
- **User manageability of the contents of the smart card** – Users can easily load and delete data objects on their smart card, without requiring a return to an issuing station or compromising the Open Platform security model.
- **Reduced deployment time** – The Java application resides in ROM, not EEPROM. This saves time during the personalization process because the application already resides on the smart card.
- **Compatibility with current Datakey CIP software** – Leverages proven interoperability with a broad range of information security and e-business applications.

The Datakey Model 330J smart card works on any Windows 95 or higher workstation, together with Datakey CAC software or Datakey CIP client software, and a Datakey serial, USB or PCMCIA reader, or with PC/SC compliant smart card readers.



Card Options

In addition to the robust functionality of the Datakey Model 330J smart card, customers have a range of personalization options from which to choose. Datakey smart cards can be ordered with custom artwork or design, company logos, picture IDs, blank for printing and personalization at the enterprise, magnetic stripes, bar codes, or RF proximity technology.

Card option legend

| | |
|-------------|---|
| A | For customers that provide Datakey with their own custom artwork (logos, picture IDs, design, etc.) |
| B | Blank (white) card |
| J | Designates the card as a Datakey Java Card (see image above) |
| M | Magnetic stripe included in addition to the smart chip |
| P | RF proximity technology embedded in the card in addition to the smart chip |
| CUST | For customers that provide Datakey with their own card. Datakey mills/embeds the smart chip on the provided card. |

More than one option can be included on a Datakey smart card. For example:

Datakey Model 330JM – Model 330J Java Card with standard Datakey Java Card artwork and a magnetic stripe

Datakey Model 330JPA – Model 330J Java Card where customer supplies artwork and RF proximity technology is included.
