Smart cards can improve any transaction involving data and value. When you design your smart card system, comprehensive planning means optimal results. This guide is meant for general reference only, and does not cover every possible design step and contingency.

**The First Four**

1. Do you require a completely original design? Or is there an existing application that you can use? (For the latter, please visit CardLogix Smart Partners at http://www.cardlogix.com/smartpartners/)
2. Is there a clear business case? Does it include financial and consumer behavior factors?
3. Will the smart card handle data, value, or both? Adding a value function increases system design security and complexity.
4. What are the card’s essential features? With multiple functionalities, prioritize, starting with the most important one and phase in additional features incrementally.

**Basic Setup**

1. Will the system be single-application or multi-application?
2. Are there industry standards (e.g. ISO, EAL, or ETSI) to conform to for specific encryption or chip requirements?
3. What information do you want to store in the cards?
4. How much memory is required for the applications?
5. If the system is multi-application, how will you separate different types of data?
6. Will data be obtained from a database or loaded each time?
7. Will this data concurrently reside on a database?
8. How many smart cards will be needed?
9. Have card or infrastructure vendors been identified? What are their lead times?
10. What are the required readers, handsets, terminals, and software?
11. Is a Card Management System (CMS) necessary?
12. How many types of artwork will be included in the issuance?
13. Who will design the artwork?
14. What is needed on the card (e.g. signature panels, magnetic stripes, embossing, etc.)?

**Value Applications**

1. Is value in your cards reloadable or one-time use?
2. How will you distribute the cards?
3. How will cards be activated and loaded with value?
4. Will there be a refund policy?
5. What is the minimum and maximum value to store on each card?

**Deployment Recommendations**

1. Establish clear and achievable program objectives
2. Analyze the application and IT environment
3. Make sure the organization has a stake in the project’s success and that management buys into the program
4. Set a budget
5. Name a project manager
6. Assemble a project team and create a team vision
7. Graphically create a dataflow diagram
8. Assess the card and reader options
9. Write a detailed specification for the cards and system
10. Set a realistic schedule with inchstones and milestones
11. Establish security parameters for people and the system
12. Build your on-card and host file structures
13. Phase in each system element and test as you deploy
14. Reassess your system for security leaks
15. Deploy the first phase of cards and test the system
16. Train the key employees responsible for each area
17. Set up a system user manual
18. Check the reporting structures
19. Create contingency plans, should problems arise
20. Deploy and announce your system
21. Advertise and market your system

**Security**

1. What are the security requirements?
2. Does all of the data need to be secure? Or only some?
3. Who will have access to this information?
4. Who will be allowed to change this information?
5. In what manner will you secure this data? (e.g. encryption, host passwords, card passwords, PINs, etc.)
6. Should keys/PINs be customer or system activated?
7. How will you identify the card issuance and versions?
8. Will the system utilize PKI and Digital Certificates? If so, how will they be managed?
9. What about security printing options? (e.g. guilloches, microprinting, holograms, hidden images, etc.)
CardLogix’ Smart Toolz®, M.O.S.T. Toolz™, and Java-based open source software enable low-cost, high-performance system development for identity and stored value. Geode™, S@t Manager, and VirtuoSimo™ speed handset and operator solutions for mobile applications. For expert system integration, these tools, plus other hardware, mesh together for a best of breed smart card-based system.

**Smart Toolz®**

Smart Toolz is a comprehensive suite of software and hardware components that includes everything you need to develop contact and contactless memory smart card applications. The toolkit features the CardAppz® software, enabling marketing professionals to fully demonstrate a card’s capabilities within a fully configurable card database and system. Also included is the Card Configuration Utility software, allowing designers to configure a card’s parameters, load data to the card, and then communicate to the card through the supplied Winplex® middleware.

**M.O.S.T. Toolz®**

Designed specifically for multi-application and high security microprocessor-based smart card systems, the M.O.S.T. Toolz™ Microprocessor Card Development Kit features robust software and hardware components for rapid system development. M.O.S.T. Toolz gives you the power to deliver multiple applications and services on a single card, allowing for fast system design and easy updating without the need for card re-issuance.

**Embedded Toolz™**

The Embedded Toolz™ SDK includes all the components, firmware, and software you need to prototype your product’s smart cards and embedded readers. The kit comes complete with a full schematic, driver software, and source code to allow easy interfacing with your host processor and system hardware. The supplied reader chip is compatible with the widest range of smart cards and protocols available. When combined with Smart Toolz or M.O.S.T. Toolz, reading and configuring your cards is a snap.

The Embedded Toolz kit contains ten smart cards, a prototyping reader board with card sockets and USB input cable, plus a CD with sample code, schematics, manual, FAQ, and design tips.

**Telecom Tools**

CardLogix has you covered from SIM ToolKit configuration tools to complete Java SIM. Our goal is to make tools easy to use so your design is done right the first time and gets to market faster. We offer the best of breed tools for your development project. Some of them are even free, based on production commitments. Contact your CardLogix representative to get started today.
Middleware Support

- PCSC industry standard API
- All standardized PIV II Middleware meeting SP800-73-1 requirements
- ImageWare Systems Card Management Systems (CMS’s)
- Intercede CMS
- MovieGold® API for Ticketing, Stored Value, and POS systems
- Printplex® API for Card Encoding and Issuance
- RSA PIV II Middleware and CMS
- SafeSign Middleware Cryptographic Service Provider (CSP)
- SafeSign Token Manager
- Worldwide Trust CMS’s
- Winplex®, a general purpose API
- Trakplex® API for Gaming and Hospitality
- Charismathics CSP and PKI Middleware

Additional Card Options

- Lithographic card printing
- Guilloches and rosettes
- Microprinting
- Laser engraving
- Magnetic stripes (HiCo, LoCo, and colored)
- Card punching
- Optically Variable Devices (OVD’s)
- Holograms and holomags
- Barcode printing
- Serialization and variable image printing
- Tamper-evident signature panels
- Ultraviolet inks
- Hidden images (Card Validator® graphics)
- Color shifting inks
- Colored interlayers

Additional Card Options (Continued)

- OV dots
- Speed bumps

Applet Support

- PIV II for Identity systems
- SafeSign SSO
- ICAO passport applets
- Match on-card biometric applets
- One-time password and digital signatures for GSM phones
- SMS applets
- Emergency medical record system applet
- Navy Cash applet

Fulfillment & Packaging Options

- Letter and Z-fold mailing insertions
- Card wallets
- Tyvek card sleeves
- Card wallet books
- CD Connect cards
- Retail card hangers and blister packaging
- Customized shrink-wrap bundles
- Cards with peel-off coupons
- Tamper-evident packaging

Encoding Options

CardLogix can program your card orders, including magnetic stripe encoding and software loading. Fulfillment services are available for all orders (e.g., affixing cards to special carriers, such as promotional collateral). You can also order cards serialized and inserted into envelopes that can be stamped and mailed. Card lots can also be individually sleeved or shrink-wrapped for non-secure delivery.

Our Magnetic Stripe Cards can be encoded to the industry specifications set by leading manufacturers of automated banking equipment for tracks 1, 2, and 3.

CardLogix can load Java applets and all standard types of data, such as identification records, health histories, etc. For security applications, CardLogix can also load the card with digital certificates, transport keys, and encrypted keys.
Additional smart card form factors include:
- USB jump drives
- E-passports
- SD cards
- miniSD cards
- Laundry tags

CardLogix offers cards in the following substrates:
- Commercial grade
- Biodegradable grade
- Precision identity grade
- Government certified grade
- Molded ABS (for SIM cards)

Note: Drawings are 2:3 scale.
### Memory Smart Cards

<table>
<thead>
<tr>
<th>CardLogix Part Number</th>
<th>User Memory</th>
<th>Issuer Memory</th>
<th>Type</th>
<th>Functionality / Applications</th>
<th>Security Features</th>
<th>Communication Protocols</th>
<th>Supported Readers*</th>
<th>Maximum Supply Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLXSA002KA2</td>
<td>2k bits</td>
<td>N/A</td>
<td>Memory</td>
<td>Small record storage, loyalty, conventions, digital receipts</td>
<td>Host-based only</td>
<td>PC</td>
<td>A, C, I, O</td>
<td>3 mA</td>
</tr>
<tr>
<td>CLXSA006KA7</td>
<td>8k bits</td>
<td>N/A</td>
<td>Memory</td>
<td>Small record storage, loyalty, conventions, digital receipts</td>
<td>Host-based only</td>
<td>PC</td>
<td>A, C, I, O</td>
<td>3 mA</td>
</tr>
<tr>
<td>CLXSA016KA8</td>
<td>16k bits</td>
<td>N/A</td>
<td>Memory</td>
<td>Data / record storage, health informatics, loyalty, conventions, digital receipts</td>
<td>Host-based only</td>
<td>PC</td>
<td>A, C, I, O</td>
<td>3 mA</td>
</tr>
<tr>
<td>CLXSA024KA9</td>
<td>32k bits</td>
<td>N/A</td>
<td>Memory</td>
<td>Data / record storage, health informatics, loyalty, conventions, digital receipts</td>
<td>Host-based only</td>
<td>PC</td>
<td>A, C, I, O</td>
<td>3 mA</td>
</tr>
<tr>
<td>CLXSA048KA3</td>
<td>64k bits</td>
<td>N/A</td>
<td>Memory</td>
<td>Data / record storage, health informatics, loyalty, conventions, digital receipts</td>
<td>Host-based only</td>
<td>PC</td>
<td>A, C, I, O</td>
<td>3 mA</td>
</tr>
<tr>
<td>CLXSA096KA4</td>
<td>128k bits</td>
<td>N/A</td>
<td>Memory</td>
<td>Data / record storage, health informatics, loyalty, conventions, digital receipts</td>
<td>Host-based only</td>
<td>PC</td>
<td>A, C, I, O</td>
<td>3 mA</td>
</tr>
<tr>
<td>CLXSA192KA5</td>
<td>256k bits</td>
<td>N/A</td>
<td>Memory</td>
<td>Data / record storage, health informatics, loyalty, conventions, digital receipts</td>
<td>Host-based only</td>
<td>PC</td>
<td>A, C, I, O</td>
<td>3 mA</td>
</tr>
<tr>
<td>CLXSA384K25</td>
<td>512k bits</td>
<td>N/A</td>
<td>Memory</td>
<td>Data / record storage, health informatics, loyalty, conventions, digital receipts</td>
<td>Host-based only</td>
<td>PC</td>
<td>A, C, I, O</td>
<td>3 mA</td>
</tr>
<tr>
<td>CLXSA512K1</td>
<td>1 Mbit</td>
<td>N/A</td>
<td>Memory</td>
<td>Data / record storage, health informatics, loyalty, conventions, digital receipts</td>
<td>Host-based only</td>
<td>PC</td>
<td>A, O</td>
<td>3 mA</td>
</tr>
<tr>
<td>CLXSA004KF1</td>
<td>4 Mbits</td>
<td>N/A</td>
<td>Memory</td>
<td>Data / record storage, health informatics, loyalty, conventions, digital receipts</td>
<td>Host-based only</td>
<td>SPI</td>
<td>Custom</td>
<td>3 mA</td>
</tr>
<tr>
<td>CLXSA008K1</td>
<td>1 kibits</td>
<td>644 bits</td>
<td>Smart Memory</td>
<td>Access control, stored value, data / record storage, health informatics, loyalty</td>
<td>Read / write password protection</td>
<td>7816 Synchronous</td>
<td>A, C, I, O</td>
<td>3 mA</td>
</tr>
<tr>
<td>CLXSA016K2</td>
<td>1.6k bits</td>
<td>644 bits</td>
<td>Smart Memory</td>
<td>Access control, stored value, data / record storage, health informatics, loyalty</td>
<td>Read / write password protection</td>
<td>7816 Synchronous</td>
<td>A, C, I, O</td>
<td>3 mA</td>
</tr>
<tr>
<td>CLXSA024K3</td>
<td>2k bits</td>
<td>644 bits</td>
<td>Smart Memory</td>
<td>Access control, stored value, data / record storage, health informatics, loyalty</td>
<td>Read / write password protection</td>
<td>7816 Synchronous</td>
<td>A, C, I, O</td>
<td>3 mA</td>
</tr>
<tr>
<td>CLXSA032K85</td>
<td>2k bits</td>
<td>N/A</td>
<td>Smart Memory</td>
<td>Small record storage, loyalty, conventions, digital receipts</td>
<td>Security code, fuse lock, write protect</td>
<td>7816 Synchronous</td>
<td>A, C, I, O, S</td>
<td>5 mA</td>
</tr>
<tr>
<td>CLXSA048K1</td>
<td>1 kibits</td>
<td>2k bits</td>
<td>Smart Memory</td>
<td>Access control, stored value, data / record storage, health informatics, loyalty</td>
<td>Read / write password protection</td>
<td>PC &amp; T=0</td>
<td>A, C, I, O, S</td>
<td>5 mA</td>
</tr>
<tr>
<td>CLXSA016K4</td>
<td>2k bits</td>
<td>2k bits</td>
<td>Smart Memory</td>
<td>Access control, stored value, data / record storage, health informatics, loyalty</td>
<td>Read / write password protection</td>
<td>PC &amp; T=1-0</td>
<td>A, C, I, O, S</td>
<td>5 mA</td>
</tr>
<tr>
<td>CLXSA024K5</td>
<td>4k bits</td>
<td>2k bits</td>
<td>Smart Memory</td>
<td>Access control, stored value, data / record storage, health informatics, loyalty</td>
<td>Read / write password protection</td>
<td>PC &amp; T=1-0</td>
<td>A, C, I, O, S</td>
<td>5 mA</td>
</tr>
<tr>
<td>CLXSA048K6</td>
<td>1 kibits</td>
<td>2k bits</td>
<td>Smart Memory</td>
<td>Access control, stored value, data / record storage, health informatics, loyalty</td>
<td>Read / write password protection</td>
<td>PC &amp; T=1-0</td>
<td>A, C, I, O, S</td>
<td>5 mA</td>
</tr>
</tbody>
</table>

* Winplex supported reader brands: ACS, Cardcom, D, ID Tech, Omnikey, JCM

### Contactless Smart Cards

<table>
<thead>
<tr>
<th>CardLogix Part Number</th>
<th>User Memory</th>
<th>Manufacturer Description</th>
<th>Manufacturer Part Number*</th>
<th>Functionality / Applications</th>
<th>Security Features</th>
<th>Communication Protocols</th>
<th>Supported Readers</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLXRN004KP3</td>
<td>500 bytes</td>
<td>Crypto RF</td>
<td>AT - AT88SC0404CRF</td>
<td>Building access, transportation, purse / wallet, and stored value</td>
<td>Anti-collision, authentication</td>
<td>ISO 14443 B</td>
<td></td>
</tr>
<tr>
<td>CLXRN008KP4</td>
<td>1k byte</td>
<td>Crypto RF</td>
<td>AT - AT88SC0808CRF</td>
<td>Building access, transportation, purse / wallet, and stored value</td>
<td>Anti-collision, authentication</td>
<td>ISO 14443 B</td>
<td></td>
</tr>
<tr>
<td>CLXRN016KP5</td>
<td>2k bytes</td>
<td>Crypto RF</td>
<td>AT - AT88SC1616CRF</td>
<td>Building access, transportation, purse / wallet, and stored value</td>
<td>Anti-collision, authentication</td>
<td>ISO 14443 B</td>
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<tr>
<td>CLXRN032KP6</td>
<td>4k bytes</td>
<td>Crypto RF</td>
<td>AT - AT88SC3216CRF</td>
<td>Building access, transportation, purse / wallet, and stored value</td>
<td>Anti-collision, authentication</td>
<td>ISO 14443 B</td>
<td></td>
</tr>
<tr>
<td>CLXRN064KP7</td>
<td>8k bytes</td>
<td>Crypto RF</td>
<td>AT - AT88SC6416CRF</td>
<td>Building access, transportation, purse / wallet, and stored value</td>
<td>Anti-collision, authentication</td>
<td>ISO 14443 B</td>
<td></td>
</tr>
<tr>
<td>CLXRN128KP8</td>
<td>16k bytes</td>
<td>Crypto RF</td>
<td>AT - AT88SC12816CRF</td>
<td>Building access, transportation, purse / wallet, and stored value</td>
<td>Anti-collision, authentication</td>
<td>ISO 14443 B</td>
<td></td>
</tr>
<tr>
<td>CLXRN12UNI</td>
<td>64 bytes</td>
<td>MIFARE Ultralight</td>
<td>NX - MF0 IC 01</td>
<td>Building access, transportation, purse / wallet, and stored value</td>
<td>Anti-collision</td>
<td>ISO 14443 A</td>
<td></td>
</tr>
<tr>
<td>CLXRN16UNI</td>
<td>128 bytes</td>
<td>MIFARE Mini</td>
<td>NX - MF1 IC 520</td>
<td>Building access, transportation, purse / wallet, and stored value</td>
<td>Anti-collision, RNG, and 2 keys</td>
<td>ISO 14443 A</td>
<td></td>
</tr>
<tr>
<td>CLXRN256UNI</td>
<td>1k byte</td>
<td>MIFARE STD (Classic)</td>
<td>NX - MF1 IC 550</td>
<td>Building access, transportation, purse / wallet, and stored value</td>
<td>Anti-collision, RNG, and 2 keys</td>
<td>ISO 14443 A</td>
<td></td>
</tr>
<tr>
<td>CLXRN512UNI</td>
<td>4k bytes</td>
<td>MIFARE STD (Classic)</td>
<td>NX - MF1 IC 570</td>
<td>Building access, transportation, purse / wallet, and stored value</td>
<td>Anti-collision, RNG, and 2 keys</td>
<td>ISO 14443 A</td>
<td></td>
</tr>
<tr>
<td>CLXRN128KESD</td>
<td>4k bytes</td>
<td>MIFARE DESFire</td>
<td>NX - MF3 IC 640</td>
<td>Building access, transportation, purse / wallet, and stored value</td>
<td>Anti-collision, RNG, DES, and 14 keys</td>
<td>ISO 14443 A</td>
<td></td>
</tr>
</tbody>
</table>

*Manufacturers: AT = Atmel, NX = NXP
### Credentsys® Dual-Interface Cards

<table>
<thead>
<tr>
<th>CardLogix Part Number</th>
<th>User Memory</th>
<th>Operating System</th>
<th>Functionality / Applications</th>
<th>Supported Algorithms</th>
<th>Communication Protocols</th>
<th>Applets in ROM</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLXSU5126J3DU</td>
<td>72k bytes</td>
<td>Java Card Platform 2.2.1, Global Platform 2.1.1</td>
<td>National ID programs, healthcare, informatics, driver licenses, voter registration, enterprise IDs</td>
<td>AES-128, MD5, DES, TDEA, RSA-1024, RSA-2048, SHA-1, SHA-256</td>
<td>T=0, T=1, ISO 14443 B</td>
<td>RV II, SafeSign</td>
</tr>
</tbody>
</table>

### M.O.S.T.® (Microprocessor-Based) Cards

<table>
<thead>
<tr>
<th>CardLogix Part Number</th>
<th>User Memory</th>
<th>Security Features</th>
<th>File Types Supported</th>
<th>Communication Protocols</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLXSU32K8C5/T=0ED</td>
<td>4k bytes</td>
<td>SHA-1, DES, 3DES, AES-128</td>
<td>MF, DF, EF-Transparent, Linear, Cyclical, APP, CHV, Purse</td>
<td>T=0</td>
</tr>
<tr>
<td>CLXSU64K8C5/T=0ED</td>
<td>8k bytes</td>
<td>SHA-1, DES, 3DES, AES-128</td>
<td>MF, DF, EF-Transparent, Linear, Cyclical, APP, CHV, Purse</td>
<td>T=0</td>
</tr>
<tr>
<td>CLXSU128K8C5/T=1ED</td>
<td>16k bytes</td>
<td>SHA-1, DES, 3DES, AES-128</td>
<td>MF, DF, EF-Transparent, Linear, Cyclical, APP, CHV, Purse</td>
<td>T=1</td>
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<tr>
<td>CLXSU256K8C5/T=1ED</td>
<td>32k bytes</td>
<td>SHA-1, DES, 3DES, AES-128</td>
<td>MF, DF, EF-Transparent, Linear, Cyclical, APP, CHV, Purse</td>
<td>T=1</td>
</tr>
<tr>
<td>CLXSU512K8C6/CAED</td>
<td>64k bytes</td>
<td>SHA-1, DES, 3DES, AES-128</td>
<td>MF, DF, EF-Transparent, Extended, Linear, Cyclical, APP, CHV, Purse</td>
<td>T=1</td>
</tr>
<tr>
<td>CLXSU128K8C6/CAED</td>
<td>128k bytes</td>
<td>SHA-1, DES, 3DES, AES-128</td>
<td>MF, DF, EF-Transparent, Extended, Linear, Cyclical, APP, CHV, Purse</td>
<td>T=1</td>
</tr>
<tr>
<td>CLXSU256K8C6/CAED</td>
<td>32k bytes</td>
<td>SHA-1, DES, 3DES, AES-128</td>
<td>MF, DF, EF-Transparent, Extended, Linear, Cyclical, APP, CHV, Purse</td>
<td>T=1</td>
</tr>
<tr>
<td>CLXSU512K8C6/CAED</td>
<td>64k bytes</td>
<td>SHA-1, SHA-256, HMAC, DES, 3DES, AES-128, -192, -256</td>
<td>MF, DF, EF-Transparent, Linear, Cyclical, APP, CHV, Purse</td>
<td>14443 Contactless</td>
</tr>
<tr>
<td>CLXSU256K8C6/CAED</td>
<td>128k bytes</td>
<td>SHA-1, SHA-256, HMAC, DES, 3DES, AES-128, -192, -256</td>
<td>MF, DF, EF-Transparent, Linear, Cyclical, APP, CHV, Purse</td>
<td>14443 Contactless</td>
</tr>
<tr>
<td>CLXSU512K8C6/CAED</td>
<td>256k bytes</td>
<td>SHA-1, SHA-256, HMAC, DES, 3DES, AES-128, -192, -256</td>
<td>MF, DF, EF-Transparent, Linear, Cyclical, APP, CHV, Purse</td>
<td>14443 Contactless</td>
</tr>
<tr>
<td>CLXSU256K8C6/CAED</td>
<td>512k bytes</td>
<td>SHA-1, SHA-256, HMAC, DES, 3DES, AES-128, -192, -256</td>
<td>MF, DF, EF-Transparent, Linear, Cyclical, APP, CHV, Purse</td>
<td>14443 Contactless</td>
</tr>
</tbody>
</table>

### SIM Cards (Java & Delos®)

<table>
<thead>
<tr>
<th>CardLogix Part Number</th>
<th>User Memory</th>
<th>Type</th>
<th>SIM Application Toolkit (STK) Standard</th>
<th>R-UM</th>
<th>PIM Phase 2</th>
<th>USIM</th>
<th>OTA</th>
<th>Browser Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLXSU1286J0/SJVO</td>
<td>64k bits</td>
<td>Java Card 2.21</td>
<td>GSM 11.11, GSM 11.14</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>N/A</td>
</tr>
<tr>
<td>CLXSU1286J0/V1JW13O</td>
<td>64k bits</td>
<td>Java Card 2.21</td>
<td>GSM 11.11, GSM 11.14</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>WP 1.3</td>
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<tr>
<td>CLXSU1286J0/V1JW12O</td>
<td>64k bits</td>
<td>Java Card 2.21</td>
<td>GSM 11.11, GSM 11.14</td>
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<td>Yes</td>
<td>S@T 2</td>
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<tr>
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<td>128k bits</td>
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<td>Delos Native</td>
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<td>No</td>
<td>No</td>
<td>No</td>
<td>S@T 2</td>
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</tbody>
</table>

*256k bit and 512k bit Java-based SIMs are available with full browser support on a custom order basis.
Quality

CardLogix Corporation is absolutely committed to providing defect-free products and services to our customers, in partnership with equally committed integration partners and authorized resellers.

- California C Corporation
- CA Resale# SREAA 97-124323
- D&B# 867418899
- SIC Codes# 3577, 3089, 5162
- UNSPCSC Code# 32101617
- Harmonized Code# 8542.10.0000
- NAICS Codes# 334119, 326199, 334418, 334519, 42261, 51421
- CAGE Code# 1KV39
- Congressional District# 47