



## Single-Technology Cards with LEGIC®

### LEGIC® PRIME 1024 or LEGIC ADVANT 1024 SMART CARDS

- **High frequency (HF)** – Read/write cards with LEGIC prime or LEGIC advant enhanced encryption standards (3DES and DES) for security.
- **Flexibility** – For single- and multi-application card projects that require LEGIC readers and compliance with the LEGIC card specifications.
- **Standard-based solution** – Meets ISO/IEC standards for thickness and use with all direct image or thermal transfer printers.

#### Optional Features:

- PVC or Composite material
- Optical security features with images, holograms and laser engraving
- Additional magnetic stripe
- Wide range of additional contact chip modules for delivery as embeddable or embedded cards

HID Global's single technology, high frequency LEGIC® cards are a convenient solution for applications utilizing LEGIC readers. LEGIC cards leverage HID's expertise and product quality and offer data authentication as well as data encryption to protect the communication channel with off-card applications.

The LEGIC advant technology delivers superior privacy protection by leveraging enhanced cryptographic algorithms such as 3DES or DES. Due to its higher security and compliance with global industry standards, such as ISO/IEC 15693, the LEGIC advant cards offer a future-proof and flexible solution for single- and multi-application smart cards deployments.

The cards are also available with security and anti-counterfeiting features such as holograms, laser engraving and an additional magnetic stripe.

For a more comprehensive solution, LEGIC cards also made available as multi-RFID technologies cards that are available that support the LEGIC chip as well as other technologies such as iCLASS®.

#### Genuine HID®: Invest with Confidence

As with all Genuine HID products, the LEGIC single-technology cards are part of the broadest product line of trusted, secure identity solutions in the market and include a lifetime warranty.

#### Easy card issuance with HID Secure Identity Services™

HID Global delivers a comprehensive suite of services to help customers address every aspect of their card issuance requirements, including managing the daily flow of ID card badge requests and managing large-volume re-badging projects. It is also ideal for producing cards with a specific technology, or combining multiple technology platforms (such as Proximity, contactless, contact, magnetic stripe and/or barcode) onto one card.

HID Secure Identity Services provides a simple and secure way for customers to upload and communicate all data, images and other information to the service bureau, while reducing the cost and complexity associated with maintaining and operating a corporate infrastructure.

### LEGIC prime 1024

- Basic contactless read/write technology.
- Card technology with proprietary LEGIC algorithm for basic data authentication and encryption.
- 4 bits CRC (checksum: Cyclic Redundancy Check) protecting each card response.
- 4 bytes unique number for the card unique identifier.
- Multi-application memory: Passive data memory (EEPROM) organized in a sequence of segments of variable size.
- Read/write programmable cards with application that can reside in different memory segments.
- Baud rate: 10 kb/s

### LEGIC advant 1024

- Advanced contactless read/write card technology for applications with higher security requirements.
- Contactless Interfaces: Standard-based communication protocol ISO 15693 compliant.
- Solution leverages mutual authentication, data encryption as well as message authentication (MAC).
- Encrypted data transfer and encrypted data storage can be defined per application (DES, 3DES, LEGIC proprietary encryption) with 64 bit key length.
- User defined cryptographic keys for each application.
- Multi-application memory: Passive data memory (EEPROM) organized in a sequence of segments of variable size.
- 4 bytes unique number for the card unique identifier.
- Baud rate: 26.5 kb/s

## SPECIFICATIONS



	LEGIC prime 1024	LEGIC advant 1024
<b>Base Part Number</b>	PVC - 1550 Composite - 1650	PVC - 1551 Composite - 1651
<b>Operating frequency</b>	13.56 MHz	
<b>Typical Maximum Read Range</b>	up to 2.1" (5.4 cm)	up to 1.9" (4.7 cm)
<b>Dimensions</b>	2.126" x 3.370" x 0.030" max (5.40 x 8.56 x 0.76 ± 0.076 cm) In accordance to ISO/IEC 7810	
<b>Construction</b>	100% PVC (1550) 40% PET/60% PVC (1650)	100% PVC (1551) 40% PET/60% PVC (1651)
<b>Operating Temperature</b>	PVC: -31° to 122° F (-35° to 50° C) Composite: -40° to 158° F (-40° to 70° C)	
<b>Weight</b>	0.19 oz (5.5 g)	
<b>Memory Size / Application Areas</b>	1002 bytes user memory area for segments, max. number of segments: 127, dynamic segmentation with variable size of application segments	944 bytes user memory area for segments, organised in pages with 8 bytes each (= 118 pages), max. number of segments: 59, dynamic segmentation with variable size of application segments
<b>Write Endurance</b>	Min 100,000 erase/write cycles	
<b>Data Retention</b>	Min 10 years non-volatile data retention	
<b>Contact Smart Chip Embeddable</b>	Yes	
<b>Magnetic Stripe</b>	Optional	
<b>Printable</b>	Yes (white/white card) Usable with direct imaging and thermal transfer printers (from HID but also from other suppliers)	
<b>Slot Punch</b>	Vertical only	
<b>HID Managed Services</b>	Customized cards (including custom artwork) are available through HID Secure Identity Services™	
<b>Visual Security Options</b>	Optional including hologram, anti-counterfeiting, holographic foil	
<b>Warranty</b>	Lifetime, see complete warranty policy for details	

North America: +1 949 732 2000  
Toll Free: 1 800 237 7769  
Europe, Middle East, Africa: +49 6123 791 0  
Asia Pacific: +852 3160 9800  
Latin America: +52 477 779 1560

hidglobal.com

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2013-05-10-hid-legic-single-function-ds-en