



PRODUCT BRIEF

# IDPrime 830

## Plug & Play Smart Cards

As cybercriminals get smarter and more determined than ever, more and more businesses and government agencies are coming to the realization that single-factor authentication solutions using simple usernames and passwords are not enough. Gemalto, the world leader in digital security, offers an extensive portfolio of strong authentication solutions to help address the need for multi-factor authentication.

The IDPrime MD 830 is a contact interface smart card, FIPS 140-2 Level 3 & FIPS 140-2 Level 2 certified for both the java platform and the combination of java platform plus PKI applet.

### Future-Proofed and Scalable with Centralized Management Control

IDPrime MD 830 is based on the advanced Gemalto IDCore 30 platform, and integrates seamlessly with third-party applications through SafeNet Authentication development tools, supports SafeNet PKI and password management applications and software development tools, and allows customization of applications and extension of functionality through on-board Java applets. It is also supported by SafeNet Authentication Manager, which reduces IT overhead by streamlining all authentication operations, including deployment, provisioning, enrollment, and ongoing maintenance, as well as offering support for lost tokens.

### Benefits

- > **Perfect integration in Windows environment**—Certified and distributed by Microsoft, the IDPrime MD minidriver ensures immediate integration with all Microsoft environments, plus Plug & Play service up to Windows 10, based on a secure chip flashmask with a total capacity of 300KB.
- > **Centralized management control**—IDPrime 830 is fully supported by SafeNet Authentication Manager, which reduces IT overhead by streamlining all authentication operations, including deployment, provisioning, enrollment, and ongoing maintenance, as well as offering support for lost tokens.
- > **No compromise on security**—As reflected by the FIPS 140-2 Level 3 certification of the combination of java platform and the PKI applet, the IDPrime MD 830 smart cards implement the most advanced security countermeasures for enforcing protection of all sensitive data and functions in the card.
- > **Enhanced cryptographic support**—IDPrime MD offers PKI services with both RSA and elliptic curves.

### Strong Security

As reflected by the FIPS 140-2 Level 3 certification of the combination of java platform and the PKI applet, the IDPrime MD 830 smart cards implement the most advanced security countermeasures for enforcing protection of all sensitive data and functions in the card. IDPrime MD smart cards are secured with both RSA and elliptic curves algorithms, and address a range of use cases that require PKI security, including secure access, email encryption, secure data storage, digital signatures and secure online transactions for end users.

## Why Gemalto

IDPrime MD 830 is part of a large range of Gemalto IDPrime smart cards and benefits from Gemalto's extensive experience with minidriver enabled smart cards. Gemalto's Identity Protection solutions enable enterprises, financial organizations and service providers to protect the daily digital interactions of employees, partners and customers by ensuring secure access to online resources and securing financial transactions. Gemalto's flexible management platforms and broad range of strong authentication technologies and form factors, allow organizations to adopt a forward-looking identity management strategy, ensuring that their security needs are met as new threats and use cases evolve.

To learn more about Gemalto's complete portfolio of authentication solutions, visit our website at: [www.gemalto.com/identity](http://www.gemalto.com/identity).

## About Gemalto's SafeNet Identity and Data Protection Solutions

Gemalto offers one of the most complete portfolios of enterprise security solutions in the world, enabling its customers to enjoy industry-leading protection of digital identities, transactions, payments, and data – from the edge to the core. Gemalto's portfolio of SafeNet Identity and Data Protection solutions enable enterprises across many verticals, including major financial institutions and governments, to take a data-centric approach to security by utilizing innovative encryption methods, best-in-class crypto management techniques, and strong authentication and identity management solutions to protect what matters, where it matters. Through these solutions, Gemalto helps organizations achieve compliance with stringent data privacy regulations and ensure that sensitive corporate assets, customer information, and digital transactions are safe from exposure and manipulation in order to protect customer trust in an increasingly digital world.

Product characteristics	
<b>Memory</b>	IDPrime MD memory allows the storage of up to 15 RSA or Elliptic curve key containers
<b>Standards</b>	BaseCSP Minidriver v7 (IDGo 800 Minidriver) PKCS#11 & CSP (SafeNet Authentication Client)
<b>Operating systems</b>	Windows, MAC, Linux, Android, iOS
<b>Cryptographic algorithms</b>	<ul style="list-style-type: none"> <li>&gt; Symmetric: 3DES (ECB, CBC), AES (128, 192, 256 bits)</li> <li>&gt; Hash: SHA-1, SHA-256, SHA-384, SHA-512</li> <li>&gt; RSA: up to RSA 2048 bits</li> <li>&gt; RSA OAEP &amp; RSA PSS</li> <li>&gt; Elliptic curves: P-256, P-384, P-521 bits, ECDSA, ECDH</li> <li>&gt; On-card asymmetric key pair generation (RSA up to RSA2048 &amp; Elliptic curves, RSA 1024 support available in FIPS 140-2 Level 2 configuration)</li> </ul>
<b>Communication protocols</b>	T=0, T=1, PPS, with baud up to 460 Kbps
<b>Other features</b>	Onboard PIN Policy Multi-PIN support IDPrime family of cards can be customized (card body and programming) to fit customers' needs.
<b>Technology</b>	Embedded crypto engine for symmetric and asymmetric cryptography
<b>Lifetime</b>	Minimum 500,000 write/erase cycles Data retention for minimum 25 years
<b>Certification (Chip)</b>	<b>CC EAL6+</b>
<b>Certification (Java and applet)</b>	<b>FIPS 140-2 Level 3</b>
<b>Gemalto original applets</b>	MPCOS E-purse & secure data management application
Security	
<p>The IDPrime MD smart cards include multiple hardware and software countermeasures against various attacks: side channel attacks, invasive attacks, advanced fault attacks and other types of attacks.</p> <p>IDPrime MD 830 is both FIPS 140-2 Level 3 and FIPS 140-2 Level 2 certified for both the java platform and the combination of java platform plus PKI applet.</p>	

**Contact Us:** For all office locations and contact information, please visit [safenet.gemalto.com](http://safenet.gemalto.com)

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