![Giesecke+Devrient logo]

StarSign® FIPS 201 Cards: interoperability, security, reliability—in the palm of your hand
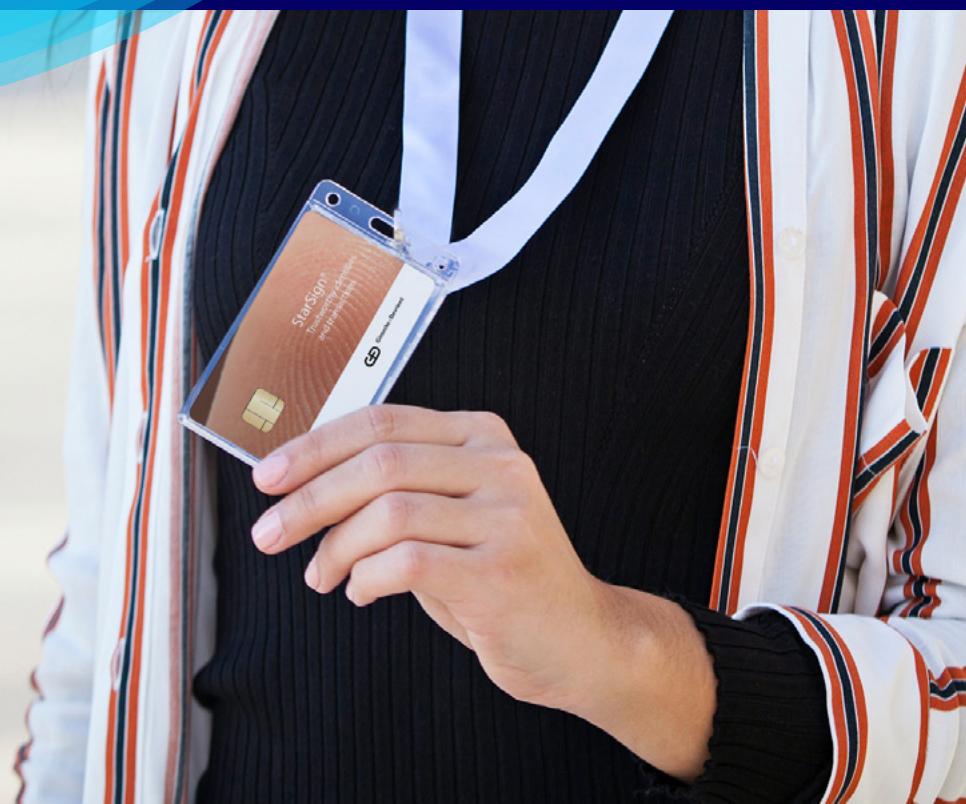
Leverage US federal levels of authentication security.

In 2004, the US government passed Homeland Security Presidential Directive 12 (HSPD-12) to prevent bad actors gaining potential access to federal buildings. This led to the eventual creation of the FIPS 201 Card—which has successfully been deployed to all US federal agencies.

We're living in an era of unprecedented distrust. That's why Giesecke+Devrient (G+D) StarSign® FIPS 201 Cards meet the same personal identity verification (PIV) standards. Designed to provide secure logical access to IT networks and secure physical access to facilities, they can be used for both PKI contact-based (ISO 7816) authentication and contactless applications (ISO 14443).

the FIPS 201 Card—which has successfully been deployed to all US federal agencies.

Why StarSign® FIPS 201 Card?

Top-level security
Strong resistance to identity fraud, tampering, counterfeiting, and terrorist exploitation. Issuance is based on sound identity verification criteria.

Unbeaten storage
StarSign® FIPS 201 Cards offer the largest memory storage available on a FIPS 201 compatible card—up to 144KB.

Easy, efficient, and flexible
StarSign® PKI Cards offer a plug-and-play solution for any platform supporting smart cards—including Windows, Mac OS, Linux, and more.

User-centric
Higher security without the hassle. Totally non-intrusive for users. New applications can be integrated at any time.

Optimized for success
Pair with the G+D StarSign® PIV applet to match FIPS 201 requirements.

How does it work?

Combining the card body with FIPS 140-2 PIV applets and Level 3-certified security modules from G+D, StarSign® FIPS 201 fulfills strong PIV requirements for employees of governmental agencies, defense contractors, and private sector companies. All G+D smart card solutions are based on Sm@rtCafé® Expert using the latest Java Card operating system from G+D. Sensitive data is protected by FIPS 140-2 Level 3 and PIV applet certification for the chip module, and we offer multiple printed security features to protect against counterfeiting.

Your trusted partner for unrivaled security

With G+D as a partner, enterprises and service providers can concentrate on their core business without constantly worrying about safeguarding their physical and digital assets.

Our industry-leading Access Management and Authentication services are the vital building blocks for the enterprise to build a secure and seamless verification of identities and authorizing transactions.

Find out more about our range of **Enterprise security solutions**.

If you would like further, more specific detail around the specifications – please get in touch – **here**.

StarSign® Sm@rtCafé Expert specifications

	Sm@rtCafé Expert 7.0	Sm@rtCafé Expert 8.0
Hardware:		
Chip:	SLE78CLFX4000P	SLC37GDA512 /448
Space for Application:	80 / 144 KB	80 / 157 KB
Interfaces:	Dual Interface (T=CL Type A) Contact-based (T=0 / T=1)	Dual Interface (T=CL Type A/B) Contact-based (T=0 / T=1)
Packages:	T-M8.4-8-1; P-M8.4-8-3; VQFN 32	GlobeTop/Transfer Mold
Cryptography:	4096 bit RSA, AES 512 bit, DSA up to 1024 bit, Triple-DES 3-key, ECDSA up to 256 bit, ECDH up to 256 bit, SHA-224, SHA-256, SHA-384, SHA-512, RNG: according to NIST SP 800-90	4096 bit RSA, AES 512 bit, DSA up to 1024 bit, Triple-DES 3-key, ECDSA up to 256 bit, ECDH up to 256 bit, SHA-224, SHA-256, SHA-384, SHA-512, RNG: according to NIST SP 800-90
Certifications:		
Chip:	Common Criteria EAL 5+ FIPS 140-2 Level 3	Common Criteria EAL 6+
Operating System:	Common Criteria EAL 6+ (EAL6+ production environments) FIPS 140-2 Level 3	Common Criteria EAL 6+ (EAL6+ production environments)
Standards:	• Java Card 3.0.4 Classic • GlobalPlatform 2.2.1 + Amendment D (SCP03) • ISO 7816, ISO 14443A	• Java Card 3.1 • GlobalPlatform 2.3.1 + Amendment D (SCP03) • ISO 7816, ISO 14443A
Available Applets / applications:	• PIV and different PKI applet and middleware • StarSign® Security Domain Applet	• PIV and different PKI applet and middleware • StarSign® Security Domain Applet
Feature Overview:	• Multiple security domains • Multiple DAP (DES, AES and RSA) • Delegated management • RMI	• Multiple security domains • Multiple DAP (DES, AES and RSA) • Delegated management • RMI
Standards support:	PKCS11, Base CSP, X.509 certificates	PKCS11, Base CSP, X.509 certificates

About Giesecke+Devrient

Giesecke+Devrient (G+D) is a global SecurityTech company headquartered in Munich, Germany. G+D makes the lives of billions of people more secure. The company shapes trust in the digital age, with built-in security technology in three segments: Digital Security, Financial Platforms and Currency Technology.

G+D was founded in 1852 and today has a workforce of more than 14,000 employees. In the fiscal year 2022, the company generated a turnover of 2.53 billion euros. G+D is represented by 123 subsidiaries and joint ventures in 40 countries. Further information: www.gi-de.com.

Giesecke+Devrient

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