

Protect your PIN code entry

GemPC Pinpad secures the smart card pin code entry for applications requiring high security transactions.

Security and confidentiality

Using its market leading single chip interface, GemCore Pro, Gemplus has created **GemPC Pinpad**, a new class 2 reader featuring a keypad and display, adding Secure PIN Entry (SPE) functionality to the Gemplus PC-Link readers range.

GemPC Pinpad provides a highly secure way to enhance your smart card-based application, by protecting the smart card PIN code from unauthorized access. The PIN code is entered locally and safely on the reader and is thus never transmitted to the PC. This is especially relevant for corporate security, Internet commerce and online banking services, where strong security and confidentiality is a must.

Ease of use

GemPC Pinpad comes with a large 2 lines and 16 characters display, to guide and help the user with PIN entry and change operations. User interface is available in several languages and new ones can be easily programmed.

Integration and maintenance is simplified by re-using GemPC's drivers and GemCore Pro firmware, already implemented in GemPC readers and partner keyboards.

Standards based

GemPC Pinpad uses GemCore Pro architecture which has passed all computing and banking certifications such as Microsoft WHQL (Windows Hardware Quality Labs) and EMV (Europay Mastercard, Visa).

GemPC Pinpad is also compliant with PC/SC 2.0.



Branding on demand

Gemplus can personalize the GemPC Pinpad reader and its packaging according to the customer's identity and brand. A scalable supply chain, a large mass production capacity and qualified manufacturing processes allows Gemplus to guarantee the best possible service.



GemPC Pinpad Smart Card Reader/Writer

Leading Gemplus expertise

Gemplus remains the number one smart card reader supplier in the world (Frost & Sullivan 2004). Moreover, Gemplus designs, develops and delivers industry leading smart card interface technologies backed by a team dedicated to ensure successful and profitable implementation of our products.

Choosing Gemplus GemPC smart card readers also provides access to a full range of associated software, services and support, which has made Gemplus the world's leading provider of smart card-enabled solutions (Gartner-Dataquest 2005, Frost & Sullivan, Datamonitor).

Working with our integration and consulting services team means that you benefit from many years of experience in the deployment and integration of smart card solutions in telecommunications, financial services, identity and e-business security.

Our highly skilled experts provide quick-to-market, cost-effective, and best-of-breed services that include: audit and application design, solution and system integration, change management, customer support, training and seminars and much more.

Technical specifications

Host Interface

- Plug and Play
- USB full speed (12Mbps)



Smart Card Interface

GemCore Pro hardware and firmware architecture:

- Supports ISO 7816 class A, B and C cards (5 V, 3 V, 1.8 V)
- Supports all ISO 7816 TA1 parameters (up to 500 Kbps, TA1=97 with a 4Mhz reader clock)
- Reads from and writes to all ISO 7816-1,2,3,4 microprocessor cards, T=0 and T=1 protocols
- Supports memory cards using "Memory Card API for GemCore Twin Pro"
- Short circuit detection

Smart Card Connector

- 8 friction contacts - ISO location
- 100,000 insertion cycles
- EMV Level 1 mechanically compliant
- Embossed smart cards supported

Human interface

- 2x16 alphanumeric display
- 2 LEDs: green for transparent mode, orange for Secure PIN Entry
- Tactile keypads with 16 (4x4) silicon rubber keys

Standards / Certifications

- ISO/IEC 7816-1,2,3,4: IC cards with contacts
- EMV Terminal Level 1 version 4.0 for GemCore Twin Pro IFM
- Microsoft Windows Hardware Quality Labs (WHQL), Windows Logo Program WLP 2.0
- CCID – Chip Card Interface Device 1.0

API

- Microsoft PC/SC environment with associated drivers

Operating Systems

- Windows 98, 98SE, Me, 2000, XP, Server 2003, XP Pro x64
- Linux RedHat WS3.0, Debian, Suze

Cable/Power Supply

- USB 2.0 type A connector
- Power supply thru USB port
- Operating voltage 5 V +/- 10%

Environmental

- CE, FCC part 15 Class B
- EN 60950 / UL 950 / CSA 950
- Operating temperature: +0 °C / +55 °C
- Storage temperature: -20 °C / +65 °C

Physical Characteristics

- Tamper evident case with security marking
- LWH 121 x 79 x 49 mm
- 292 grams



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