GEMPLUS™

beyond smart

The innovative smart card interface

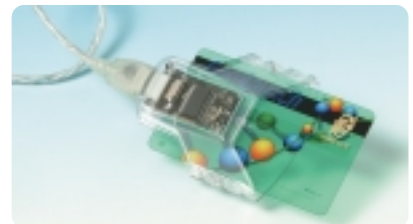## Novel design at low-cost – The new reader from the world's leading provider of smart card enabled solutions.

Using its best selling single-chip interface, GemCore Pro, Gemplus has created a new reader, GemPC Twin, that works in tandem with your smart card design, while offering the end-user the choice of a serial or USB connection.

GemPC Twin provides an unrivalled, cost effective and secure way to enhance your smart card based applications. This is especially relevant for corporate security, Internet shopping and online banking services where confidentiality is a must.

New architecture
The new single-chip, industry endorsed GemCore Pro architecture is the result of more than 10 years experience in smart card and interface development. It offers multiple PC connections, as well as support for most microprocessor and memory cards on the market. The proven security, reliability and efficiency of this architecture have made GemCore-based devices such as GemPC Twin world favorites, passing all computing and banking certifications such as Microsoft WHQL (Windows Hardware Quality Labs) and EMV (Europay, MasterCard, Visa). GemPC Twin is also compliant with Microsoft's CCID driver.

New transparent design
Customization of a smart card reader slows down time to market and increases the cost of production. Gemplus removes both of these issues by providing a fully transparent reader that makes the most of your smart card design. By avoiding graphical reader personalization, GemPC Twin allows you to use the smart card as a promotional tool, bringing down overall costs. Ergonomic and compact, the new design of GemPC Twin will be a welcome addition to any workstation. GemPC Twin's stylish design provides the same high quality of the whole GemPC series, having passed identical tests that prove its toughness.

An intelligent approach
Companies deploying a smart card-based solution face the problem of knowing which type of PC connection the end-user needs, either serial or USB. GemPC Twin overcomes this problem by being compliant with both standards and can be provided with either serial or USB cables depending on customers' needs. The power of this reader is its ability to automatically reconfigure the way it communicates by simply inserting either cable (removing the need for additional software or drivers).

Same Gemplus expertise

Gemplus designs, develops and delivers industry leading smart card interface technologies backed by a dedicated team 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 have made Gemplus the undisputed world leader in Smart Card enabled solutions. 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 and e-business security fields. Our highly skilled experts provide quick to market, cost-effective, and best-in class services ranging from audit and application design to solution and system integration, change management, customer support, training & seminars.

Technical Specifications

Host Interface
• Plug and Play

GemPC Twin [Serial mode]
   - serial RS232
   - programmable transmission from 9,600 to 115,200 bps

GemPC Twin [USB mode]
   - USB full speed (12Mbps)

Smart Card Interface
GemCore Pro hardware and firmware architecture:
• supports ISO7816 Class A, B and C (5V, 3V, 1.8V)
• supports all ISO7816 TA1 parameters (up to 344 kbds)
• reads from and writes to all ISO7816-1,2,3,4 microprocessor cards, T=0 and T=1 (memory cards support upon request)
• short circuit detection

Smart Card Connector
• 8 frictions contacts – ISO location
• 100,000 insertion cycles
• EMV level 1 mechanically compliant
• embossed smart cards supported

Human Interface
• LED one Color (Green)

Standards/Certifications
• ISO/IEC 7816-1,2,3,4: IC Cards with Contacts
• EMV level 1, EMV'96 version 3.1.1 (EMV2000 under completion at printing time)
• Microsoft Windows® Hardware Quality Labs (WHQL)
• USB 2.0 Full speed (GemPC Twin in USB mode)
• CCID - Chip Card Interface Device - 1.0 (GemPC Twin in USB mode)

APIs
• Microsoft PC/SC environment with associated drivers
• other environments (OCF, CT-API) upon request

Operating Systems Support
• Windows 98, 98SE, Me, 2000, XP (Windows 95OSR2, NT4.00 for GemPC Twin in serial mode)
• Other OS supported upon request (Linux, MacOS X)

Cable/Power Supply

GemPC Twin [Serial mode]
   - cable 1.5 m long
   - serial DB9 connector
   - power supply thru PS/2 port
   - op. voltage 5V +/- 10%

GemPC Twin [USB mode]
   - cable 1.5 m long
   - USB type A connector
   - power supply thru USB port
   - op. voltage [4.4 -> 5.5V]

Environmental Performances
• CE, FCC part 15 Class B, VCCI, BSMI, C-Tick
• EN 60950/UL950/CSA950
• operating temperature: +5°C to +55°C
• storage temperature: -25°C to +60°C

Dimensions
• LWH 68 x 63 x 12 mm

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