

*Your bridge
between smartcards
and PCs*



Gemplus "PC-Link" readers:

[The right choice for s

Gemplus offers powerful, ergonomic and cost-effective products for information technology applications.



Gemplus offers smart, secure, universal and user-friendly readers for the growing home-banking, electronic commerce and computer network security markets.



Meeting all the required standards of the computer industry and the banking world (PC/SC, WHQL, EMV...), the GemPC smartcard reader series has been especially developed to make transactions easy

regardless of the configuration and the type of PC it connects to. Gemplus brings its technological know-how and consulting ability in smartcards, software and hardware to information technology professionals. Telecom, internet or banking organizations, as well as system integrators or software developers are now able to offer complete and secure solutions for electronic business applications.

Why choose Gemplus PC-Link readers?

Gemplus PC-Link readers are PC/SC compliant and support "Plug and Play" to make installation easy. Most of the readers are listed on Microsoft's Windows® Hardware Quality Labs' (WHQL) compatibility list under the "Designed for Microsoft® Windows 95/98/NT4 and Windows 2000" logos. GemPC readers are also compatible with most of the current banking and e-purse standards (EMV, Mondex, GeldKarte). Therefore, Gemplus PC-Link readers allow end-users, even non initiated, to manage their bank account from their computer, to buy directly from Internet sites or to protect access or software copyright in a secure environment. Gemplus is the partner of choice for smart IT solutions, with industry leaders such as Compaq®, Hewlett Packard® and IBM® integrating Gemplus reader technology into their offerings.


A complete range for specific needs

All Gemplus PC-Link readers are upward compatible and have the ability to read from and write to existing and future ISO 7816 memory and microprocessor cards on the market. They have been developed with several types of connections, characteristics and designs so that they can be adapted to different needs and environments.

secure computer transactions]


• GemPC400

Designed for mobile or desktop computers with access to a Type II PC card slot (PCMCIA), the GemPC400 is compact and lightweight. The GemPC400 is perfectly suited to control access to local or wide-area networks (Internet) and databases, to identify PC users, to limit the use of software to selected people or to prevent illegal software reproduction.

PC Connection & Interface Mode	Type II PC Card (PCMCIA). 2.1 PC card interface software.
Card Compatibility	Reads/Writes all ISO 7816 and 7811 (embossed) cards. T=0, T=1 protocols. Optional drivers for other protocols (T=14, GPM, GFM, etc.). 3V and 5V cards.
Industry & Banking Standards	PC/SC, WHQL certification for Windows® 95, 98, NT4 and Windows 2000. GeldKarte compliant. Mondex certified.  Designed for Microsoft® Windows NT® Windows 98
Physical Characteristics	85x54x5 mm - less than 20 g.

• GemPC410

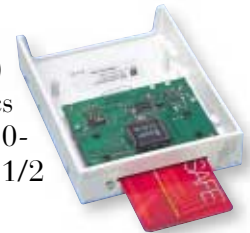
Operating or using the GemPC410 requires no technical expertise. Compatible with all major operating systems, it uses serial communication and interfaces with desk or laptop PCs through an RS232 connection. It is powered from the computer keyboard port, free of the constraints associated with other power source options. Being powerful and user-friendly at a low cost, the GemPC410 is well suited for applications such as home-banking, Internet shopping, or corporate computer access control.

PC Connection & Interface Mode	Serial Communication through RS232. TLP224 and Gemplus Block Protocol (GBP).
Card Compatibility	Reads/Writes all ISO 7816 - 1/2/3/4 memory and microprocessor cards. T=0, T=1 protocols. Command interpreter for synchronous cards. 3V and 5V cards.
Industry & Banking Standards	PC/SC, WHQL certification for Windows® 95, 98, NT4 and Windows 2000. EMV level 1, Geldkarte compliant. Mondex certified.  Designed for Microsoft® Windows NT® Windows 98
Physical Characteristics	86x85x26 mm - less than 150 g.



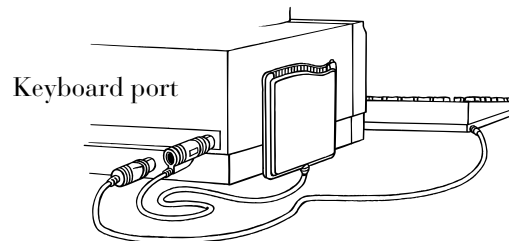
• GemPC410-FD (floppy disk)

Featuring the same characteristics as the GemPC410, the GemPC410-FD is ready to be installed in a 3 1/2" or a 5 1/4" floppy drive bay.



• GemPC420

Small and ergonomic to fit harmoniously in every environment, the GemPC420 utilizes the PS/2 keyboard port to draw its power and to interface with PCs. Along with the convenience of freeing the serial port, this sole connection through the keyboard port allows unequalled PIN-code entry security. This secure PIN-code capture process make the GemPC420 ideal for applications such as computer access control and network security.



PC Connection & Interface Mode	PS/2 protocol, keyboard port. TLP224 and Gemplus Block Protocol (GBP).
Card Compatibility	Reads/Writes all ISO 7816 - 1/2/3/4 memory and microprocessor cards. T=0, T=1 protocols. Command interpreter for synchronous cards. 3V and 5V.
Industry & Banking Standards	PC/SC, WHQL for Windows® 95, 98, NT4 and ITSEC E2 High certifications are in progress at printing time. Mondex, EMV level 1, Geldkarte compliant.
Physical Characteristics	96x70x15 mm - 80 g.

NEW**• GemPC430**

Taking into account the spread of the Universal Serial Bus, Gemplus has developed this small and very affordable smart card reader that takes advantage of this new interface.



PC Connection & Interface Mode	USB port - 12 Mb/s - connector serie A Hubless TLP224 and Gemplus Block Protocol (GBP). Max. speed towards the cards: 115.2 Kb.
Card Compatibility	Reads/Writes all ISO 7816 1/2/3/4 memory and microprocessor cards. T=0, T=1 protocols. Command interpreter for synchronous cards. 3V and 5V cards.
Supported Platforms	Windows® 95 and Windows 2000.
Physical Characteristics	Same flat casing as the GemPC420.

NEW**• GemPC-Touch440**

The GemPC-Touch440 is a smart card reader with a fingerprint sensor. Ergonomically designed, it makes smart card security easy and convenient by using your fingerprint instead of any password or PIN-code.



PC Connection & Interface Mode	Parallel port - conform to IEEE1284.
Card Compatibility	Reads/Writes all ISO 7816 1/2/3/4 memory and microprocessor cards. T=0, T=1 protocols. Command interpreter for synchronous cards. 3V and 5V cards.
Fingerprint Sensor	Silicon sensor - 3D template (Veridicom) Resolution 500 DPI.
Supported Standards	Compatible Windows NT4 Windows 95/98 and Windows 2000 certifications in process at printing time
Physical Characteristics	19x61x92 mm - 85 g without cable.

GemSAFE™ Enterprise

GemSAFE Enterprise is the Gemplus' corporate security solution. It is based on smart cards to enhance the security and ease the management of functions like digital signatures and file encryption. Based on open standards, GemSAFE Enterprise is the ideal solution for securing applications ranging from email to web or network access. It adds trust, portability and ease of use to corporate network security by leveraging the inherent benefits of smart cards. GemSAFE Enterprise addresses any organization's practical needs for scalability, ease of deployment and manageability. It supports Windows 95/98, Windows NT 4.0 and Windows 2000 on the client side and Windows 2000 on the server side.

GemSAFE Enterprise Workstation 2.1 is certified for Windows 2000.



Industry leaders trust Gemplus PC-Link readers

Major international businesses opted for Gemplus equipment to secure network exchanges:

- American Express® uses Gemplus PC-Link readers to support its Blue Card internet banking and e-commerce programs in the U.S. Gemplus developed a special reader combining the GemPC420 casing and GemPC410 electronics.
- Compaq equips computers for logical access control applications with GemPC400s and GemPC410s.
- IBM uses thousands of GemPC400s and customized GemPC410s for its "Secure Way" smartcard security kits which enable computer access control.



An example of customization: American Express reader.

Gemplus readers: the largest range for every field

“The undisputed world leader in smart cards, Gemplus is also a top ranking provider of smartcard readers with more than 600,000 units installed worldwide. In addition to the PC-Links, Gemplus developed two other readers ranges based on the GemCore® architecture. Their proven security, reliability and efficiency have made them the world favorites for IT, e-purse, vending, loyalty, healthcare and access control applications.”

Integrated technology and devices range

GemCore readers from the Integrated Technologies range directly address consumer electronics or equipments manufacturers. From chipset to “ready-to-integrate” couplers, they offer all possible solutions to integrate a smartcard interface in electronic devices such as screen-phones, keyboards, cellular phones, set top boxes, payphones, vending or metering machines. Major keyboard manufacturers, like Cherry and Silitex, integrate GemCore technology.



Standalone terminals range

The Standalone terminals range resulted from customers requirements for a secure and separate management of several applications simultaneously. Equipped with their own built-in memory, displays, keyboards, security modules, modems and/or printers, Gemplus GemSelf readers are designed for applications such as loyalty, electronic purse, healthcare and identity.

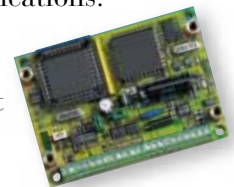
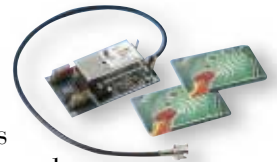
They are currently in use for national healthcare applications in Slovenia, Belgium and France.



Contactless solutions range

From antennas and couplers to packaged readers, Gemplus developed and designed contactless devices that allow a card to be operated from a distance of 1mm up to dozens of centimeters. The Contactless solutions range is the best answer for physical access control, fare payment in public transport (teleticketing) or electronic toll applications.

The city of Seoul has chosen Gemplus to equip its buses as part of the world's largest transport application to date.



To evaluate the advantages of Gemplus readers, a dedicated Development Kit is available for each device in each range.



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