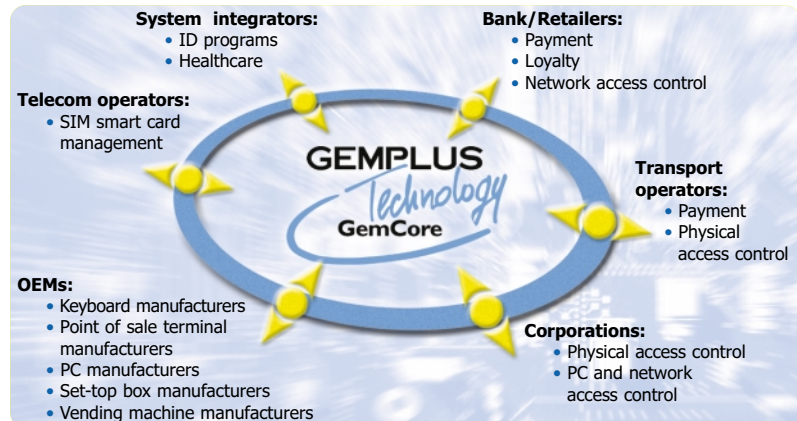


Linking multiple devices and applications for an array of industries





A smart card-based solution requires a reader infrastructure that is **robust, reliable, certified** and **easy to deploy**. That is why Gemplus offer world-class smart card enabling technologies for diverse segment markets.

Markets and applications









Easy and secure e-transactions are more important than ever. GemPC range, meeting all the required standards of the computer industry and the banking world, offer Telecom, banking organizations, governments, enterprises and system integrators smart card interfaces to complete secure electronic applications for any type of PC.

GemPC™ Range



Product	Interface	OS	Certification	Benefits & Options	Applications
 GemPC Serial/USB	RS232 USB Full Speed (12 Mbps)	<ul style="list-style-type: none"> Windows 98, 98SE, Me, 2000, XP for USB & Serial Windows 95 OSR2 & NT4 for Serial MacOS X, Linux (upon request) 	<ul style="list-style-type: none"> Microsoft Windows® Hardware Quality Labs (WHQL) CCID (USB mode) EMV PC/SC 	<ul style="list-style-type: none"> Customizable Slim line compact case Tamper proof 	<ul style="list-style-type: none"> Home-banking E-loyalty Logical access control Network security On-line shopping and more...
 GemPC Twin	RS232 USB Full Speed (12 Mbps)	<ul style="list-style-type: none"> Windows 98, 98SE, Me, 2000, XP Windows 95 OSR2 & NT4 for Serial Other OS supported upon request (Linux, MacOS X) 	<ul style="list-style-type: none"> Microsoft Windows® Hardware Quality Labs (WHQL) EMV CCID (USB mode) 	<ul style="list-style-type: none"> Transparent design USB/Serial con. Options: <ul style="list-style-type: none"> Stand Floppy bay pack USB cable Serial cable 	
 GemPC 400	PC Card Type II (PCMCIA)	<ul style="list-style-type: none"> Windows 95OSR2, 98, 98SE, Me, NT4, 2000, XP MacOS, Unix Linux (upon request) 	<ul style="list-style-type: none"> Microsoft Windows® Hardware Quality Labs (WHQL) PC/SC 	<ul style="list-style-type: none"> Compact & light Fits in network card slot Ideal for laptops Customizable 	
 GemPC Key	USB Full Speed (12 Mbps)	<ul style="list-style-type: none"> Windows 98, 98SE, Me, 2000, XP MacOS X, Linux (upon request) 	<ul style="list-style-type: none"> Microsoft Windows® Hardware Quality Labs (WHQL) PC/SC CCID 	<ul style="list-style-type: none"> Compact, secure, portable plug-in USB reader Easy to use Access to WLAN network 	

GemCore is Gemplus' own technology that simplifies the design of any smart card reader and associated applications. It addresses the needs of consumer electronics and equipment manufacturers with a range including chipsets, OEM couplers and Intellectual Property.

GemCore™ Range			
GemCore Chipsets	Host Interface	Features	Certification
	<ul style="list-style-type: none"> Serial USB 	<ul style="list-style-type: none"> Compatible with all ISO7816 micro cards and most memory cards 	<ul style="list-style-type: none"> Microsoft® WHQL EMV (Europay, MasterCard, Visa) GIE CB, ZKA, Mondex
GemCore for Mobile Devices 	<ul style="list-style-type: none"> Designed for easy integration into all mobile devices Cost-effective range, it features low-power management for small objects and multi-card compatibility GemCore-based devices are easily EMV certified 		
GemCore for Keyboards 	<ul style="list-style-type: none"> A single chip for USB, SCI and keyboard management Available in Serial and USB versions Your product will quickly pass Microsoft's WHQL and EMV approval tests 		
GemCore for POS 	<ul style="list-style-type: none"> The latest technology for POS architecture Ideal for applications requiring EMV Type Approval Optimized architecture for multiple SAM (Security Access Module) applications 		
OEM Couplers	Host Interface	Features	
GemCore410 GemCore410-EMV 	<ul style="list-style-type: none"> TTL serial line with the host (+ RS232 in EMV version) 	<ul style="list-style-type: none"> Development of applications using the GemCore SDK EMV and CB certification for banking applications Easy connection to PC hosts thanks to Windows drivers and API library 	
GemCore500-MS4 	<ul style="list-style-type: none"> 4 SAM ID-0 connectors TTL serial line with the host Real time clock 	<ul style="list-style-type: none"> Development of applications using the GemCore SDK and on-board memory 	

Physical access control

When extra convenience and easy identification is required whilst ensuring secure transactions, Gemplus designs and develops a series from antennae and couplers to packaged readers, giving customers the potential to develop new generation systems of access control to corporate offices and buildings.

Contactless Range			
Readers	Host Interface	Features	Benefits
GemEasyAccess 	Three different connections available <ul style="list-style-type: none"> Wiegand (card serial number) RS232 RS485 	<ul style="list-style-type: none"> Operating system: up to 5 cm Compliant with ISO14443 and Mifare Optional sensor for low power consumption MAD management 	<ul style="list-style-type: none"> Small size (88x46x19 mm) Robust, cost-effective and flexible For access control applications Perfect for customization Upgradeable firmware
Couplers	Host Interface	Features	Benefits
GemEasyLink 	Wiegand 32 (card serial number) <ul style="list-style-type: none"> RS232 RS485 	<ul style="list-style-type: none"> Operating system: up to 5 cm Compliant with ISO14443 and Mifare MAD management 	<ul style="list-style-type: none"> Easy to integrate, ideal for access control applications Upgradeable firmware

