

1 GENERAL INFORMATION

1.1 Product description

The GemPC430 device is a smart card reader connected to a Personal Computer. Smart cards which can be used with the GemPC430 reader are ISO7816-compatible smart cards. It is introduced in the GemPC430 reader, and the Personal Computer manages applications; Typical applications are:

- Computer access control
- Electronic commerce
- Home banking facilities
- E-purse facilities
- Electronic smart card personalization
- Development of smart card application software
- Others...

The GemPC430 reader is connected to the USB Type A slot for communication with the Personal Computer, and is also powered, by USB port..

The GemPC430 is a product developed by the Gemplus company; Its part number is RPF15266A0.

For more information, see product's data sheet at section 1.6.

1.2 Related Submittal(s) / Grant(s)

All host equipment used in the test configuration are FCC granted, when relevant.

1.3 Tested System Details

The FCC IDs for all equipment, plus description of all cables used in the tested system (including inserted cards, which have grants) are :

Trade Mark – Model Number (Serial number)	FCC ID	Description	Cable description
GemPC430 PN: RPF15266A0* (sn: R0050100244)	MES430GPC	Smart card reader	Shielded cable attached to product
Gemplus MPC0S64K-3DES	None	Smart card	none
Dell XPS T500model MM8 (sn: JXB0A)	Doc. Of Conf	Personal computer	All data cables are shielded Power cable unshielded
HEWLETT PACKARD D2846 (sn: JP93142989)	Doc. Of Conf.	21" color monitor	Shielded video cable
HEWLETT PACKARD C4734-60111 (sn: M971168931)	GYUR38SK	Keyboard	Shielded cable
HEWLETT PACKARD 4736-60101 (sn: LZA61209812)	JNZ201213	Mouse	Shielded cable
HEWLETT PACKARD C2106A (sn: 3110S58792)	B94C2106X	Serial printer	HP 24542G shielded serial cable
HEWLETT PACKARD C6410A (sn: MY9761915T)	Doc. Of Conf.	Parallel printer	HP C2950A shielded parallel cable

*Equipment Under Test

1.4 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4-1992, CISPR22-1993/A1:1995/A2:1996 and EN55022:1994/A1:1995/A2:1997.

Radiated testing was performed at an antenna to EUT distance of 10 meters. During testing, all equipment's and cables were moved relative to each other in order to identify the worst case set-up.

1.5 Test facility

Tests have been performed on May 31th, 2000.

The test facility used to collect the radiated and conducted data is the SMEE Actions Mesures facility, located ZI des Blanchisseries, 38500 VOIRON, France. This test facility has been fully described in a report and accepted by FCC as compliant with the radiated and AC line conducted test site criteria in ANSI C63.4-1992 in a letter dated August 04, 1999 (registration number 94821).

This test facility has also been accredited by COFRAC (French accreditation authority for European union test lab accreditation organization), accreditation number 1-0844 as compliant with test site criteria and competence in EN55022/CISPR22 norms for 89/336/EEC European EMC Directive application. All pertinent data for this test facility remains unchanged.

1.6 Data sheet of the product

A highly accessible, highly convenient solution.

This compact card reader, designed to plug into a PC environment, is the ultimate smart card peripheral for a PC. It is also very simple to use and install. The user needs no technical knowledge. If you need electronic commerce, home banking or e-purse facilities, secure computer access or any of a multitude of other applications, the **GemPC430** is the smartest answer. For the first time, a solution is available that offers impressive possibilities at an exceptional price.

Small is beautiful

At a mere 70 x 98 x 15 mm, the **GemPC430** will handle the card interface, while your computer supports and manages the applications. Compatible with all major computers and operating systems, the **GemPC430** is powered from any USB type A slot available, free of the constraints associated with other power-source options. It will open up many possibilities, including:

- computer-access control,
- electronic commerce,
- home banking facilities,
- e-purse facilities,
- electronic smart-card personalization,
- development of smart-card application software,
- lots of other interesting or entertaining things.

Years of Gemplus technological experience, now available to all

The **GemPC430** is based on Gemplus' [GemCore](#)® hardware and firmware, which means it can handle all types of ISO7816- compatible smart cards without compatibility problems. It is user-friendly, and operating or using it requires no technical expertise. The **GemPC430** will happily blend with all main environments (Windows® 98, Windows® 2000, etc.), all types of card, and most makes of computer. It will readily adapt to new smart-card services, as they become available.

The **GemPC430** has successfully passed the **Microsoft Windows Hardware Quality Lab (WHQL)** test session and is eligible for the "Designed for Microsoft Windows" logo for both Windows98 and Windows 2000 professional.

The **GemPC430** has successfully passed the **Compliance program of the USB organisation** and is listed as a full compliant USB device in the [USB web site](#).

GemPC430 Product range

Product	Part N°
GemPC430	RPF15266

Please contact your local Gemplus office to order.

GemPC430 Features and Application Standards

Feature	Description
Smart-card interface	reads from and writes to all ISO7816-1/2/3/4 memory and microprocessor smart cards (T=0, T=1)
Communication	- supports 3V and 5V cards - programmable from 9,600 bauds to 115,200 bauds with the smart card
Power consumption	- Bus Powered Suspend Mode: 20 uA typical - Bus Powered Unconfigured Mode: 25 mA typical - Bus Powered Configured Mode: 25 mA typical - Bus Powered Operating Mode: 40 mA typical
Interface modes	- High Speed communication with the PC through USB port connection - Hubless
Power supply	5V maximum drawn from the USB port
Electro-magnetic standards	- Europe: 89/336/CEE guideline - EN 55022: 1994 Class B - EN 50082-1: 1994 - EN 50081-1: 1992 - EN 61000-4-2: 1995 - EN 61000-4-3: 1997 - EN 61000-4-4: 1995 - Comply with EMC directive 89/336/EEC - USA: FCC part 15 Class B - Europe: EN60950
Security levels	- IEC950: 1991, Am,3: 1995 - USA: UL1950 third edition, dated July 28, 1995 - Canada: CSA950 - Comply with low voltage directive 73/23/EEC