

1. GENERAL INFORMATION

1.1. Product description of GemProx-PU

The GemProx-PU is a desktop reader dedicated to Identity and Payment markets equipped with a USB and RS232 interface.

	GemProx - PU
Compliance to standards	ISO14443 type A and B, Mifare®, FIPS 201, PayPass L1, ICAO
Interface with the host	RS232 and USB 2.0 @ 460 Kbps
Dimensions	106 mm x 75 mm x 24 mm
On-board features	1 antenna, 4 LEDs, 1 buzzer, 2 SAMs
Index of Protection	IP23
Operating temperature	0 °C to +50 °C (+32 °F to +122 °F)
Reading distance	Up to 6 cm

This device is made of a main board embedding the Gemplus [GemProx Chip Set](#), two SAM connectors and two communication ports: RS232 and USB. The other board is the RF antenna which has been particularly dimensioned for Payment cards and e-passports.

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 are :

Trade Mark – Model Number (Serial number)	FCC ID	Description	Cable description
GEMPROX-PU * Sn : PROTO N° V2	MESPROXU	Contactless smartcard reader	Power cord unshielded, USB cable shielded, RS232 cable shielded
FRIWO Type: FW7650/05 (sn: none)	None	AC/DC Power supply Out 5Vdc/1A	DC power cord unshielded.
Hewlett Packard VECTRA VL420 DT pn: P5755-60201 (sn: FR14122957)	DOC	Personal computer	Power cord unshielded. All other cable shielded.
Hewlett Packard pn:D2846 (sn: JP74001000)	DOC	Monitor	Power cord unshielded. Video cable shielded
Hewlett Packard pn:C4736A (sn: LZA4000061)	DZL211092	MOUSE	PS2 cable
Hewlett Packard pn:C4774 (sn: M990814763)	GYUR73SK	Keyboard	PS2 cable
GEMPLUS GEM COMBI CD Lite	None	Smartcard ISO 14443	None

* : Equipment under test.

1.4. Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4-2003, FCC Part 15 Subpart C.

Radiated testing was performed at an antenna to EUT distance of 10 meters ($F < 30\text{MHz}$) and 3m ($F > 30\text{MHz}$). 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 June 6th and 8th, 2006.

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 C63.4-2003 in a letter dated July 14, 2005 (registration number 94821). This test facility has also been accredited by COFRAC (French accreditation authority for European union test lab accreditation organization) according to NF EN ISO/IEC 17025, accreditation number 1-1633 as compliant with test site criteria and competence in 47 CFR Part 15/ANSI C63.4 and EN55022/CISPR22 norms for 89/336/EEC European EMC Directive application. All pertinent data for this test facility remains unchanged.