

Gem PC Card Reader Technical Specifications

Smart-card interface

- support ISO 7816 Class A, B and C (5V, 3V, 1.8V)
- support all ISO 7816 TA1 parameters (up to 344 Kbps)
- reads from and writes to all ISO 7816-1,2,3,4 microprocessor cards, T=0 and T=1. Memory cards support using "Memory Card API for GemCore Twin Pro"
- Short circuit detection
- smart card connector is 8 friction contacts - ISO location, guarantee for 100,000 insertion cycles - EMV level 1 mechanically compliant.
- embossed smart cards are supported.

Host Interface

- PCMCIA Type II
- Plug and Play
- power supply thru PCMCIA port
- operating voltage 5V +/- 10%
- programmable transmission from 9600 to 115,200 bps

Operating/storage Temperature

- Operating : +0°C / +55°C
- Storage : -20°C / +65°C

OEM

- custom stickers for branding

API's

- Microsoft PC/SC environment with associated drivers

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

Security levels

- Europe : EN60950
- IEC950: 1991, Am.3: 1995
- USA: UL1950 third edition, dated July 28, 1995
- Canada: CSA950
- Comply with low voltage directive 73/23/EEC

Standards & certifications

- ISO/IEC 7816-1,2,3,4: IC Cards with contacts
- EMVCo 4.0 terminal level 1 (EMV2000)
- Microsoft Windows Hardware Quality Labs (WHQL), Windows Logo Program WLP 2.0
- ROHS compliant
- WEEE marking

Operating systems supported

- Windows NT4, 2000, Xp, Server 2003,
- Windows 98, 98SE, Me
- Windows Xp 64 bits and Server 64 bits
- Windows Vista 32 & 64 bits
- Linux Redhat WS3.0, WS4.0, Suse Professional 9.2, DEBIAN "Sarge"

Packaging

- each reader is packed in a crystal plastic box (91x63x6mm). Overall weight is 51 grams.

Power Consumption

- operating : 25 mA (maximum value)

Dimensions

- 85 x 54 x 5 mm (3.4 x 2.16 x 0.2 inches), PC Card Type II format.

Weight

- 29 grams



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