Smart card reader/Writer/ Memory Card Reader

Feacture:

· Supports ISO-7816 Class A, B and C (5V, 3V, 1.8V) cards

· Performs read and write operations on all microprocessor cards with T=0, T=1 protocols

· **Supports most of the popular memory card types in the market:**

- Cards following the I2C bus protocol (free memory cards) such as:

  Atmel: AT24C01 / 02 / 04 / 08 / 16 / 32 / 64 / 128 / 256 / 512 / 1024

  SGS-Thomson: ST14C02C, ST14C04C

  Gemplus: GFM1K, GFM2K, GFM4K, GFM8K

- Cards with intelligent 256 bytes EEPROM and write protect function: SLE4432, SLE4442, SLE5532, SLE5542

- Cards with intelligent 1K bytes EEPROM and write-protect function: SLE4418, SLE4428, SLE5518, SLE5528

- Cards with '104' type of EEPROM (non-reloadable token counter cards): SLE4406, SLE4436, SLE5536, SLE6636

- Cards with secure memory IC with password and authentication: AT88SC153, AT88SC1608

- Cards with Intelligent 416-Bit EEPROM with internal PIN check: SLE4404

- Cards with Security Logic with Application Zone: AT88SC101, AT88SC102, AT88SC1003

· Supports PPS (Protocol and Parameters Selection)

· Short Circuit Protection

· RoHS Compliant (มาตรฐานสารพิษ เช่น ตะกั่ว แคดเมี่ยม ปรอท ต้องไม่เกินที่กำหนด)

· Certificate of conformance: EN 60950/IEC 60950, ISO-7816, PC/SC, CE, FCC, VCCI, CCID, Microsoft WHQL, EMV 2000 Level 1

Technical Support:

Dimensions	Spaceship Casing: 73.0mm (L) x 96.5mm (W) x 19.0mm (H) Bridge Casing : 80.0mm (L) x 71.5mm (W) x 80.0mm (H)
Interface	USB 2.0 full speed
Supply Voltage	Regulated 5V DC
Supply Current	max. 50mA
Operating Temperature	0-50°C
Operating Frequency	4 MHz
MBTF	500,000 hours
Smart Card Interface Support	• ISO-7816 Class A, B and C (5V, 3V, 1.8V)
Compliance/Certifications	• EN 60950/IEC 60950, EMV 2000 Level 1, PC/SC, CCID, CE, FCC, VCCI, RoHS Compliant, USB Full Speed • Microsoft WHQL: 2000, 2003, XP, Vista, 2008, 2008 R2, 7
Operating System Support	• Win98, Win ME, Win 2000, Win XP, Win Vista, Win 7, Win Server 2003, Win Server 2008 • Win XP x64, Win Vista x64, Win 7 x64, Win Server 2003 x64, Win Server 2008 x64, Win Server 2008 R2 x64 • Mac

ข้อมูลเพิ่มเติม

protocol parameter selection

PPS (protocol parameter selection) is a communication transaction for changing the para-
meters used for data transmission between the terminal and the smart card from the
valuesstated in the ATR. These changes are made on the request of the terminal. The PPS
isoptional and does not have to be executed.

http://www.gorferay.com/protocol-parameter-selection/

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RoHS Compliance Definition

The definition and aim of the RoHS directive is quite simple. The RoHS directive aims to
restrict certain dangerous substances commonly used in electronic and electronic
equipment. Any RoHS compliant component is tested for the presence of Lead (Pb),
Cadmium (Cd), Mercury (Hg), Hexavalent chromium (Hex-Cr), Polybrominated biphenyls

(PBB), and Polybrominated diphenyl ethers (PBDE). For Cadmium and Hexavalent chromium, there must be less than 0.01% of the substance by weight at raw homogeneous materials level. For Lead, PBB, and PBDE, there must be no more than 0.1% of the material, when calculated by weight at raw homogeneous materials. Any RoHS compliant component must have 100 ppm or less of mercury and the mercury must not have been intentionally added to the component. In the EU, some military and medical equipment are exempt from RoHS compliance.

http://www.rohscompliancedefinition.com/