



SMART CARD READER WITH PINPAD

APG8201-B2

VERSATILE & CONVENIENT

As technology becomes more sophisticated, fraud-related incidents in banking and identification sector becomes more prevalent. These occurrences generate billions of dollars worth of losses and bring distress among cardholders. Certain security measures and systems are created specifically to protect cardholders from frauds, which makes the APG8201-B2 a reliable tool to fight these occurrences.

The APG8201-B2 is a portable, low-cost, and hand-held smart card device which supports Secure PIN Entry (SPE) to assure safe PIN entry and PIN change while connected to a personal computer to perform various authentication applications. The PIN is securely entered on the device rather than the vulnerable personal computer or workstation, hence eliminating the possibility of a middleman attack in getting hold of the card PIN.



KEY FEATURES

- ✓ **USB 2.0 Full Speed Interface**
- ✓ **CCID Compliance**
- ✓ **Supports PC/SC**
- ✓ **Supports PC/SC 2.01 Secure PIN Entry (SPE)**
- ✓ **Supports PPS (Protocols and Parameters Selection)**
- ✓ **Smart Card Reader**
 - Supports full-sized microprocessor Cards (T=0, T=1 Protocols)
 - Supports ISO 7816 Class A Cards
 - Allows semi-insertion of cards
- ✓ **Built-in Peripherals:**
 - Graphical LCD for Logos and Multiple-language Characters
 - Monotone Buzzer
 - Durable Tactile Keypad with 20 Silicon Rubber Keys
 - Key Symbol on LCD to Recognize SPE Mode
- ✓ **Reliable**
 - Compliant with International Regulations
 - Short Circuit Protection
- ✓ **Compatible**
 - Supports All Major Operating Systems
 - Windows®, Linux®, macOS and Android™

COMMON APPLICATIONS

- e-Government
- e-Banking and e-Payment
- e-Healthcare
- Public Key Infrastructure
- Network Security
- Access Control
- Loyalty Program



TECHNICAL SPECIFICATIONS

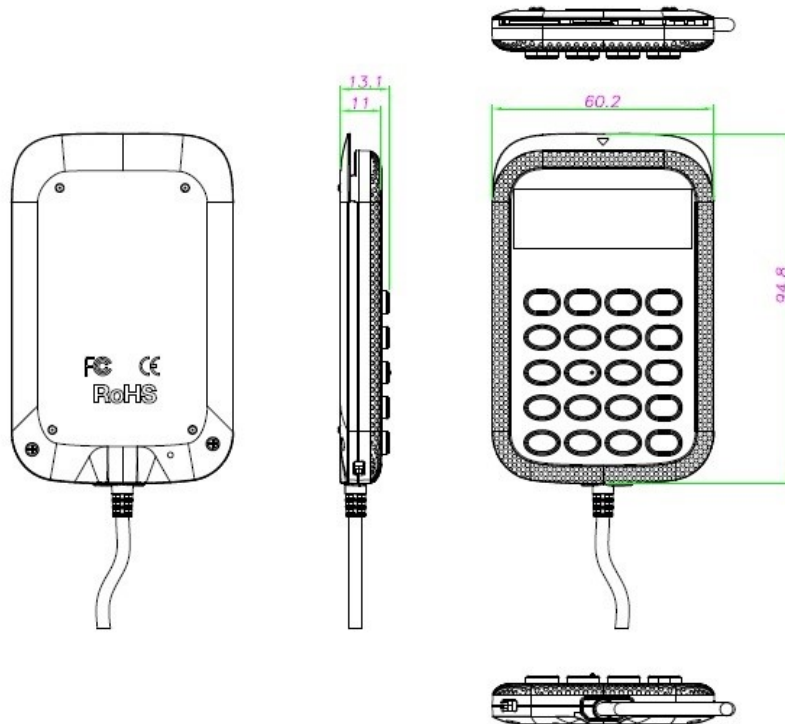
Contact Smart Card Interface	
Number of Slot(s)	1 Full-Sized Card Slot
Supported Card Types	ISO 7816 Parts 1-4, Class A (5 V) Microprocessor Card (T=0, T=1),
Supply Current	Max. 50 mA
Read/Write Speed	1.743 Kbps – 250 Kbps
Clock Frequency	2 MHz
Card Connector	Contact
Card Insertion Cycles	Min. 100,000
PPS (Protocol and Parameters Selection)	Supported
Short Circuit Protection	Supported
Host Interface	
Protocol	USB CCID
Connector Type(s)	USB Type-A
USB Interface	USB 2.0 Full Speed (12Mbps)
Supply Voltage	5 V
Cable Length	1.5m (Non-Detachable)
Application Programming Interface	
PC-Linked Mode	PC/SC
Model/Part Number	
Default	APG8201-B2

Physical Characteristics	
Dimensions	95 mm (L) x 60 mm (W) x 13 mm (H)
Weight	98.0 g ± 5.0 g
Available Colour(s)	Black
Peripherals	
LCD	Dot Matrix LCD
	Resolution: 96 x 16 pixels
	Number of characters: 16 characters x 2 lines
Buzzer	Monotone
Keypad	20 keys
Operating Conditions	
Temperature	0 - 50°C
Humidity	Max. 90% (Non-Condensing)
MTBF	60,000 Hours
Power Supply	USB Port
Certifications/ Compliances	
Standards	USB CCID, PC/SC, PC/SC 2.0 Part 10 (SPE), Microsoft® WHQL
Regulatory/ Environmental	CE, FCC, RoHS, REACH
OS Support	
Supported OS	Windows®, Linux®, macOS, Android™

MECHANICAL SPECIFICATIONS

Note: All dimensions in

mm



About ACS

Advanced Card Systems Ltd. (ACS), founded in 1995, is Asia Pacific's top supplier and one of the world's top 3 suppliers of PC-linked smart card readers. ACS is the winner of the Product Quality Leadership Award for Smart Card Readers from Frost & Sullivan. ACS was listed in Forbes Asia's "Best Under a Billion" list for several years, an inter-industry list comprised of 200 top-performing publicly listed companies in the Asia-Pacific, with sales between US\$5 million and US\$1 billion. ACS develops a wide range of high-quality smart card reading/writing devices, smart cards and related products and distributes them to over 100 countries worldwide.

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