

IQ SC1™ Smart Card Reader

SecuGen

Features

- USB 2.0 Full Speed Interface
- Compatible with USB 3.0
- Plug and Play – CCID support brings utmost mobility
- Smart Card Reader:
 - Supports ISO 7816 Class A, B, and C (5 V, 3 V, 1.8 V) cards
 - Supports CAC
 - Supports SIPRNET Card
 - Supports J-LIS Card
 - Supports microprocessor cards with T=0 or T=1 protocol
 - Supports memory cards
 - Supports Mykad Card
 - Supports PPS (Protocol and Parameters Selection)
- Features Short-Circuit Protection
- Application Programming Interface:
 - Supports PC/SC
 - Supports CT-API (through wrapper on top of PC/SC)
 - Supports Android™ 3.1 and later



Modern, Compliant Smart Card Technology with Style

Modern Technology

The IQ SC1 Smart Card Reader ushers in new and modern technology to the world of smart card readers. This compact smart card reader brings together sophisticated technology and modern design to meet the rigorous requirements of smart card-based applications.

Key Features

It features a USB Full Speed interface and a smart card read/write speed of up to 600 Kbps. Highly durable, IQ SC1 can last for 200,000 card insertion cycles. IQ SC1 has a variety of certifications, such as EMV™ Level 1 (Contact) and PBOC, making it the ideal smart card reader for e-Banking and e-Payment applications.

Compliance

It is fully compliant with PC/SC and CCID specifications, and supports various operating systems such as Windows®, Solaris™, Linux®, and macOS. Additionally, IQ SC1 may be used on mobile devices running on the Android™ platform versions 3.1 and above.

Style

With its sleek, stylish design and powerful core, the IQ SC1 is an ideal peripheral for your smart card applications.

Primary Applications

- e-Government
- Banking & Payment
- e-Healthcare
- Network Security
- Access Control
- Public Key Infrastructure
- e-Purse & Loyalty

Specifications

Technical Specifications

Contact Smart Card Interface

Number of Slots	1 Full-Sized Card Slot
Standard	ISO 7816 Parts 1-4, Class A, B, C (5V, 3V, 1.8V)
Protocol	T=0; T=1; Memory Card Support
Others	MyKad card, CAC, J-LIS, SIPRNET, J-LIS Smart Cards
Supply Current	Max. 50 mA
Read/Write Speed	9.6 – 600 kbps
Clock Frequency	4.80 MHz; operates up to 16MHz
Card Connector	6-Pin contact
Card Insertion Cycles	Min. 200,000, Min. 300,000 (for landing connector)
PPS (Protocol and Parameters Selection)	Supported
Short Circuit Protection	Supported

USB Interface

Protocol	USB CCID
Connector Type	Standard Type-A (model ACR39U-U1) Type-C (model ACR39U-UF)
Power Source	From USB port
Speed	USB 2.0 Full Speed (12Mbps) Compatible with USB 3.0
Supply Voltage	5 V
Cable Length	1.5 m (fixed)

Application Programming Interface

PC-Linked Mode	PC/SC
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General

Model	ACR39U-U1 (Standard USB) ACR39U-UF (Type-C USB)
Dimensions	72.2 mm (L) × 69.0 mm (W) × 14.5 mm (H)
Weight	65 g ± 6.5 g
Operating Temperature	0 - 60°C
Operating Humidity	Max. 90% (non-condensing)
LED	Green
MTBF	500,000 hours
Plug and Play	Supported

Certifications/Compliance

Certifications	UL 62368, CE, UKCA, FCC, RoHS, REACH, VCCI, Microsoft® WHQL, EN 62368/IEC 62368, EMV™ Level 1 (Contact), BIS, J-LIS, KCC, PBOC, TAA (USA), UL, ISO 7816, USB 2.0 Full Speed
Compliance	USB CCID, PC/SC

Device Driver Operations System Support

Driver + Supported OS	Windows 7, 8, 8.1, 10, 11, Windows Server 2003, 2008, 2008 R2, 2012, 2012 R2, 2016, Linux, macOS, Solaris, Android 3.1 and above
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SecuGen

Open the World with Your Fingertip!®

Founded in 1998, SecuGen is a leading provider of advanced optical fingerprint recognition technology for physical and information security. Our high quality biometric sensors have been used all around the world in diverse areas such as finance, health care, law enforcement, education, retail, manufacturing, and government at all levels.

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