Contact & Contactless Reader

ACR1581U

DualBoost III USB Dual Interface Reader

The ACR1581U DualBoost III is a highly advanced smart card reader that can work with both contact and contactless smart cards following ISO standards. Its high-speed communication capability of up to 848 kbps and built-in SAM slot provide added security and reliability for demanding smart card applications. The DualBoost III also has intelligent support for keyboard emulation and card emulation, making it versatile and useful for a broad range of smart card applications. Additionally, it has intelligent support for hybrid and combi cards, which can detect when a contactless card has been incorrectly placed in the contact card slot. The device also has USB firmware upgradability, contact memory card support, and extended APDU support, making it flexible and cost-effective for various smart card applications. It is compliant with PC/SC standards, ensuring compatibility with a wide range of smart card systems and applications.

The DualBoost III is a powerful and flexible smart card reader suitable for use in various industries, including finance, healthcare, and government. Its advanced features and versatility make it an ideal choice for demanding smart card applications that require high levels of security and reliability.

KEY FEATURES

Support various type of card type

- Contact Card:
 - ISO 7816 Class A, B and C (5V, 3V and 1.8V)
 - Memory Card, Microprocessor Card (T=0 or 1)
- o Contactless Card:
 - ISO 14443 Type A & B (T=CL)
 - ISO 15693
 - MIFARE® (T=CL), FeliCa, NFC Tags
 - SRI/SRIX, CTS, Innovatron, Picopass, Topaz Card

Performance

- o Read/Write ISO 14443A & B speed of up to 848 kbps
- Read/Write ISO 15693 speed of up to 26 kbps

Security

- o 1 x ISO 7816 Standard SAM slot for improved security
- ☑ Support keyboard emulation and card emulation
 - o Implement without the need of additional application
- Support USB Firmware Upgrade
- Reliable
 - Certified for international regulations
 - Mean time between failures (MTBF) up to 500k Hours
 - Short Circuit Protection

Compatibility

Support for all major operating systems



Common Applications

- e-Government
- e-Banking and e-Payment
- e-Healthcare
- Transportation
- Network Security
- Access Control
- Loyalty Program



www.acs.com.hk info@acs.com.hk

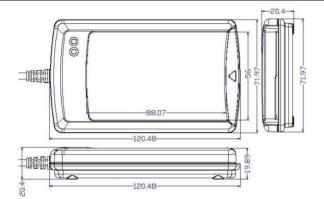


TECHNICAL SPECIFICATION

Contact Smart Card Into	orface
Number of Slot(s)	1 Full-sized Card Slot
Number of Siot(s)	ISO 7816 Class A, B, C (5V, 3V, 1.8V),
Supported Card Types	Memory Cards, Microprocessor Cards
	(T=0, T=1)
Supply Current	Max. 60 mA
Read/Write Speed	13.4 – 1,250 kbps
Clock Frequency Card Connector	5 MHz, up to 10 MHz (upon request) ICC Slot: Landing
Card Insertion Cycles	Min. 300,000
Contactless Smart Card	
Supported Card Types	ISO 14443 Type A & B Parts 1-4,
	ISO 15693, MIFARE®, FeliCa, NFC Tags, SRI/SRIX, CTS, Innovatron, Picopass,
	Topaz Card
Operating Frequency	13.56 MHz
Operating Frequency Reading Distance	Up to 70 mm (Depending on tag type)
Reduing Distance	106/212/424/848 kbps (ISO14443)
Read/Write Speed	26 kbps (ISO15693)
Other NFC features	Keyboard Emulation, Card Emulation
SAM Card Interface	Reybourd Emalation, card Emalation
Standard	1 x ISO 7816 Class A (5V) Standard SIM
	size slot
Read/Write Speed	13.4 kbps – 1,250 kbps
Clock Frequency	5 MHz, up to 10 MHz (upon request)
Protocol	T=0, T=1
Host Interface	<u> </u>
Protocol	USB CCID
Connector Type	USB Type-A
Speed	USB 2.0 Full Speed (12 Mbps)
	compatible with USB 3.0
Supply Voltage	5VDC
Current Consumption	Max. 300mA
USB Firmware	Supported
Upgrade	

Main Body: 120.5 x 72.0 x 20.4 mm	
Antenna size: 63 x 54 mm	
143 g	
Matte White	
2 m (Non-detachable)	
1 x Programmable Buzzer (Mono-tone)	
2 x Programmable LED (Blue & Green)	
0 - 60°C	
90% (Non-condensing)	
500,000 Hours	
Certifications & Compliances	
EN 62368, CE, UKCA, FCC, RoHS, REACH,	
Microsoft® WHQL	
USB CCID, PC/SC	
CT-API	
Software Development Kit	
Windows [®] , Linux [®] , macOS, Android™	
1 Year	
ACR1581U-C1	
ACR1581U-CF (upon request)	

MECHANICAL SPECIFICATION



Unit: 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. In 2010, 2014 and 2015, ACS was listed in Forbes Asia's "Best Under a Billion" list, 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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