



2.0. Features

- USB 2.0 Full Speed Interface
- CCID Compliance
- Smart Card Reader:
 - Read/Write speed of up to 424 Kbps
 - Built-in antenna for contactless tag access, with card reading distance of up to 50 mm (depending on tag type)
 - Support for ISO 14443 Part 4 Type A and B cards, MIFARE, FeliCa, and all four types of NFC (ISO/IEC 18092 tags)
 - Built-in anti-collision feature (only one tag is accessed at any time)
- Application Programming Interface:
 - Supports PC/SC
 - Supports CT-API (through wrapper on top of PC/SC)
- Built-in Peripherals:
 - User-controllable bi-color LED
 - User-controllable buzzer
- Supports Android™ 3.1 and above¹
- Compliant with the following standards:
 - EN/IEC 60950
 - ISO 18092
 - ISO 14443
 - CE
 - FCC
 - PC/SC
 - CCID
 - RoHS 2
 - KC (Korea)
 - VCCI (Japan)
 - Microsoft® WHQL

¹ Uses an ACS-defined Android Library

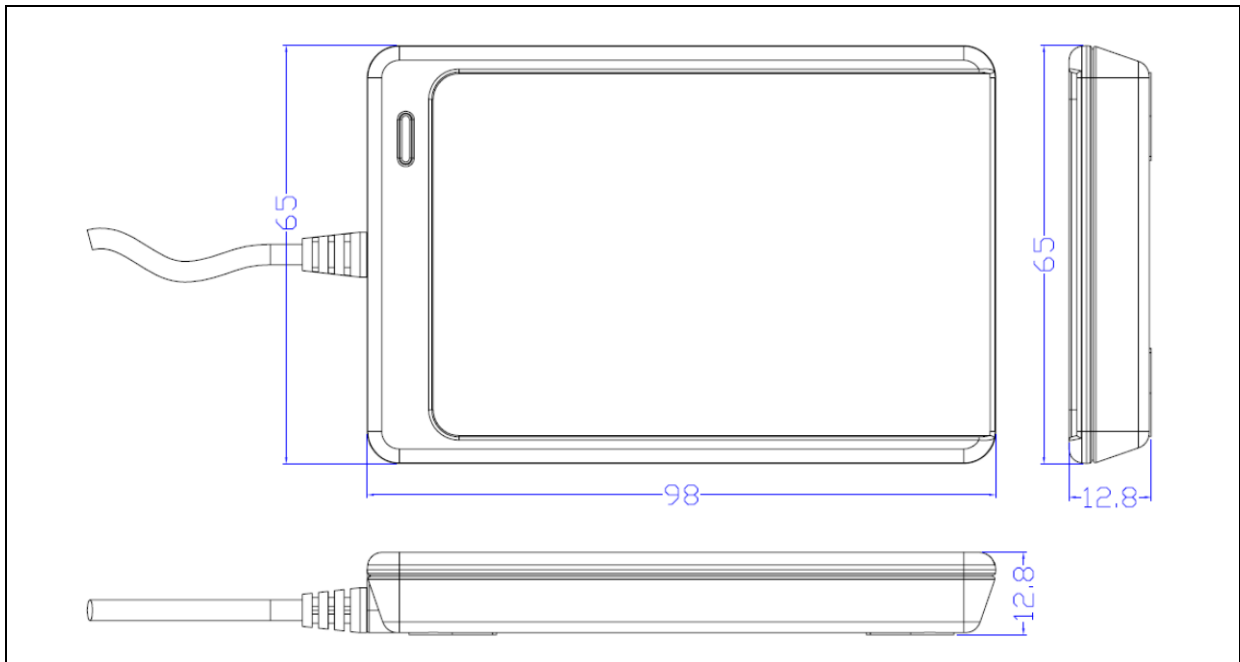


3.0. Typical Applications

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



4.0. Technical Specifications



Physical Characteristics

Dimensions	98.0 mm (L) × 65.0 mm (W) × 12.8 mm (H)
Weight.....	70 g
Color	Pearl White
Material	Polycarbonate (PC)

USB Host Interface

Protocol.....	USB CCID
Type	Four Lines: +5 V, GND, D+ and D-
Connector Type.....	Standard Type A
Power Source.....	From USB port
Speed.....	USB Full Speed (12 Mbps)
Supply Voltage	5 V
Supply Current	Max. 200 mA
.....	100 mA (normal)
.....	50 mA (standby)
Cable Length.....	1.0 m fixed cable

Contactless Smart Card Interface

Standard	ISO 14443 Type A & B, ISO/IEC 18092 (NFC), MIFARE®, FeliCa
Protocol.....	T=CL protocol
.....	FeliCa protocol
Operating Frequency	13.56 MHz
Operating Distance	Up to 50 mm (depending on tag type)
Smart Card Read/Write Speed.....	106 Kbps, 212 Kbps, 424 Kbps
Antenna Size.....	50 mm × 40 mm

Built-in Peripherals

LED	1 bi-color: Red and Green
Buzzer	Monotone

Application Programming Interface

PC-linked Mode.....	PC/SC
.....	CT-API (through wrapper on top of PC/SC)

Operating Conditions

Temperature.....	0 °C – 50 °C
Humidity	Max. 90% (non-condensing)
MTBF	408,500 hrs

Certifications/Compliance

EN/IEC 60950, ISO 14443, ISO 18092, USB Full Speed, PC/SC, CCID, CE, FCC, RoHS 2
KC (Korea), VCCI (Japan), Microsoft® WHQL



Device Driver Operating System Support

Windows® 2000, Windows® XP, Windows Vista®, Windows® 7, Windows® 8, Windows® 8.1, Windows® 10, Windows® Server 2003, Windows® Server 2003 R2, Windows® Server 2008, Windows® Server 2008 R2, Windows® Server 2012, Windows® Server 2012 R2
Linux®, Mac OS®, Android™



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