

Technical Specifications

NFC Contactless Smart Card Reader



1.0 Introduction



It is a PC-linked Contacless Smart Card Reader/Writer developed on the 13.56MHz Contactless Technology. It is the world's first CCID Compliant Contactless Card Reader/Writer that follows both ISO14443 and ISO18092. This device is designed to support not only MiFara and ISO14443 Type A and B Cards but also FeliCa and NFC tags.

By making use high-speed card access and full USB speed of 12 Mbps, read and write operations are faster and more efficient. Furthermore, this reader complies to the PC/SC Interface Standard and as a Plug and Play (PnP) device so there is no need to provide

drivers to users. With its compact size and trendy design and with the various features the ACR122 offers, you can experience the convenience in using ACR122 for applications of payment, mass transit, physical access control, time attendance, etc.

1.1 About RoHS Compliance

The RoHS (Restriction of Hazardous Substance) Directive restricts the use of six hazardous materials in the manufacturing of various types of EEE (Electrical and Electronic Equipment), including:

- *- Lead,
- *- Mercury,
- *- Cadmium,
- *- Hexavalent chromium.
- *- Polybrominated biphenyl (PBB) and
- *- Polybrominated diphenyl ether (PBDE).

RoHS compliance means the protection to the environment and your future generations from these restricted irritants, carcinogens and toxins.

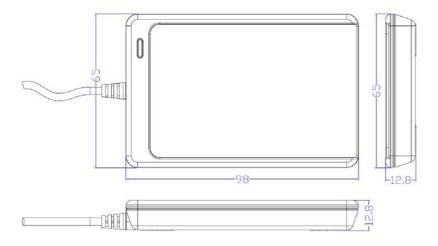
2.0 Features

- * CCID Standard
- * PC/SC Interface
- * Read / Write Speed up to 424kbps
- * ISO/IEC18092 (NFC) compliant
- * ISO14443 Type A and B card support
- * USB PnP
- * Compact and Slim design
- * Bi-Color LED
- RoHS Compliant
- * User Controllable Buzzer (optional)
- * SAM Socket (optional)

3.0 Typical Applications

- * Automatic fare collection
- Vending machines
- * Public Transportation Terminals
- Customer Loyalty
- * Physical access control
- Time attendance
- * Contactless public phones
- Network access control

Technical Specification 4.0



Power source..... From USB

Speed 12 Mbps (Full Speed)

Supply Voltage...... Regulated 5V DC

Standard ISO 7816 ProtocolT=0 protocol

Color Pearl White Antenna Size 50mm x 40mm Operating distance..... up to 50 mm

Bi-Color LED, Red and Green

Buzzer Monotone (optional)

Length...... 1.0 M (USB)

CE, FCC and ROHS Compliant

Windows 2K, 2K3, XP32, XP64, VISTA32, VISTA64

OEM-Logo possible, customer-specific colors, casing, and card connector