



2.0. Features

- 3.5 mm Audio Jack Interface
- Powered by a Lithium-ion battery (rechargeable through USB cable)
- Smart Card Reader:
 - Built-in antenna for contactless tag access, with reading distance of up to 50 mm (depending on tag type)
 - Supports ISO 14443 Part 4 Type A and B cards
 - Supports MIFARE®
 - Supports FeliCa
 - Supports ISO 18092 Tags (NFC Tags)*
 - Built-in anti-collision feature (only one tag is accessed at any time)
 - NFC Support:
 - Card reader/writer mode
- Magnetic Stripe Card Reader:
 - Reads up to two tracks of card data
 - Capable of bi-directional reading
 - Supports AES-128 encryption algorithm
 - Supports DUKPT Key Management System
 - Supports ISO 7810/7811 magnetic cards
 - Supports Hi-coercivity and Low-coercivity magnetic cards
 - Supports JIS1 and JIS2
- Supports Android™ 2.0 and above**
- Supports iOS 5.0 and above**
- Compliant with the following standards:
 - ISO 18092
 - ISO 14443
 - CE
 - FCC
 - VCCI
 - RoHS 2
 - REACH

**Topaz type is excluded. Please contact ACS for more details.*

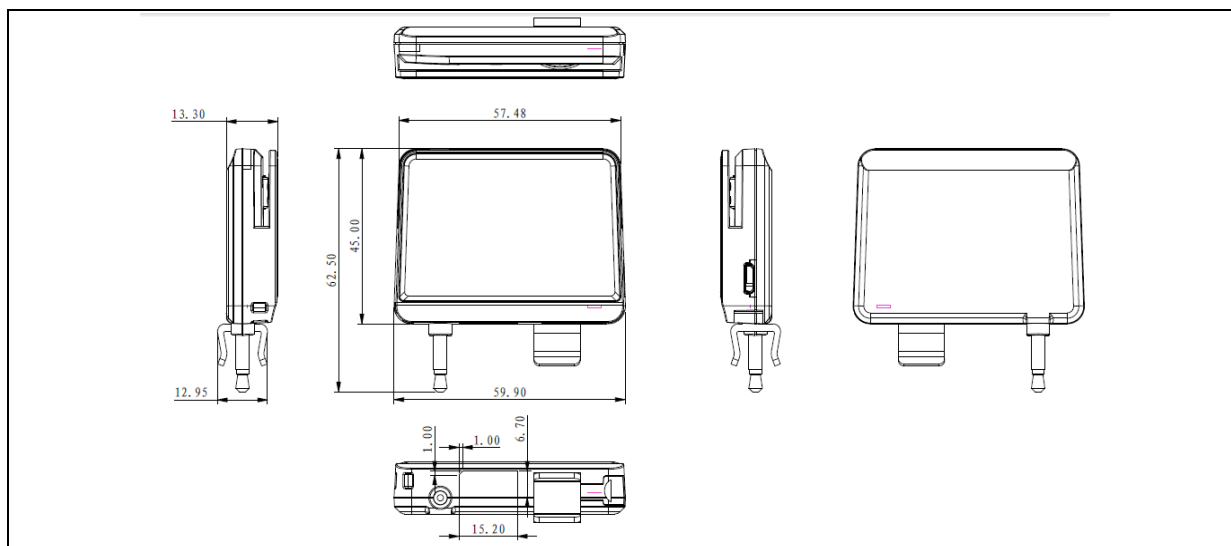
*** Visit www.acs.com.hk for the list of supported devices.*



3.0. Typical Applications

- Mobile Banking
- Mobile Payment
- e-Healthcare
- Loyalty Program

4.0. Technical Specifications



Power Supply

Battery Powered..... 3.2 V to 3.7 V DC Lithium-ion Battery (rechargeable through USB)
Operation Time Approx. 2 hrs (continuous operation)

Communication Interface

Type..... Bi-directional Audio Jack Interface
Connector..... 3.5 mm 4-pole Audio Jack
Speed..... Max. 2.6 Kbps

Magnetic Card Interface

Standard ISO 7810/7811 Hi-Co and Low-Co Magnetic Cards
..... JIS 1 and JIS 2
Card Swipe Speed Max. 10 in/s
Card Swipe Cycles..... Min. 500,000

Contactless Smart Card Interface

Standard ISO/IEC 18092 NFC, ISO 14443 Type A & B, MIFARE, FeliCa
Protocol..... ISO 14443 T=CL for ISO14443-4 compliant cards and T=CL Emulation for MIFARE Classic 1K/4K, ISO 18092, FeliCa and NFC tags
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

Physical Specifications

Dimensions 60.0 mm (L) x 45.0 mm (W) x 13.3 mm (H)
Color White
Weight 29 g (with battery)
Cable length, cord, connector 1 m, Fixed (detachable), USB A

Operating Conditions

Temperature 0 °C – 50 °C
Humidity Max. 90% (non-condensing)
Mean Time Between Failure 300,000 hrs

Certifications/Compliance

ISO14443, ISO/IEC 18092, CE, FCC, VCCI, RoHS 2, REACH

Device Driver Operating System Support

Android™ 2.0 and above, iOS 5.0 and above



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