

The evaluation kit for secure reader NFC OEM is a Contactless Smart Card reader module; compliant with ISO14443, ISO18092 and EMV Level 1 Contactless. Easy to use, plug and play it can be integrated everywhere: vending machines, kiosks, voting machines, ID verification etc. Get contactless banking transaction with high secure level. This evaluation kit can be customized on demand with a display or a touchscreen.



• **TYPICAL APPLICATIONS :**

Kiosks / Vending Machines



POS / Payment Terminal



Network Security / Secure Log On



Access control/Logical access



Healthcare



Transportation



Identity



Anti-Fraud War



• **OPTIONS ON DEMAND :**

**Graphic display LCD TFT 3.5"** color 320x240  
**Touchscreen**, output IO, LED, Buzzer  
**Secure module and SAM** option  
 Different size of **Antenna**

**QR Codes imager**  
**Development application**  
 Storage Memory Flash 32Mbytes (up on demand)  
**Specific mechanical design**

## TECHNICAL SPECIFICATIONS

- Contactless Smart Card Reader

NFC Read/Write speed up to 848 kbps  
 Built-in antenna for contactless tag access, operating distance up to 50 mm  
 ISO7816-compliant, SAM slot  
 High security level  
 Compliant Payment applications



- **HOST Interface**  
 USB 2.0 full speed (USB or external power supply 5V DC, 100mA)  
 Others interfaces available : USB Serial CDT, HID, RS232, 232 TTL, I2C, SPI, MDB (Automatic Vending Machine), Bluetooth 4.2
- **HOST Operating System**  
 Windows 98, XP, 2000, Server 2003, x64, Vista, Seven, Windows 8, Linux Kernel 2.6, Android, Mac OS 10.3, G3, G4, G5, and more...
- **STANDALONE with customer application**  
 Software Development Kit, language C, Free RTOS, upgradable.  
 Flash Data Application Memory 32Mbytes  
 Real Time Clock

### MAIN FEATURES / CERTIFICATIONS

Microsoft WHQL



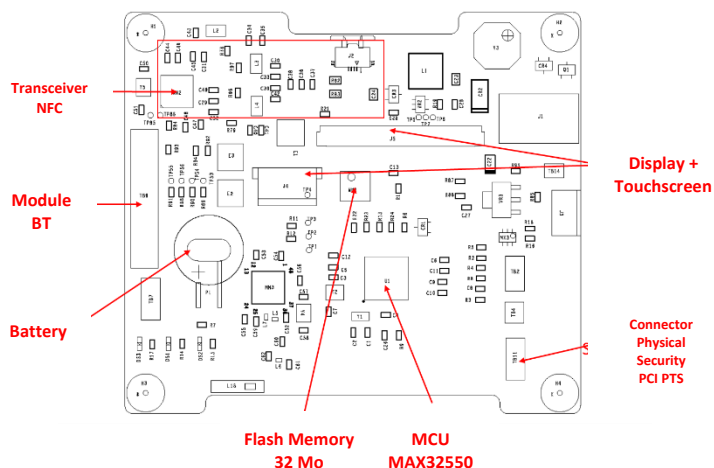
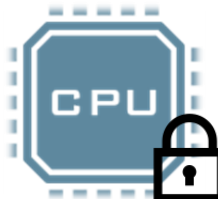
EMV Level 1 contactless v2.6 compliant  
 ISO14443 AB, ISO15693, ISO7816-4, T=CL, ISO18092 NFC Forum  
 Ready for the payment VISA, MASTERCARD, others in option  
 PC/SC Workgroup CCID v1.1  
 CE, FCC, RoHS

### SECURITY

EMBEDDED Secure Element (SE),  
 Hardware crypto AES, 3DES, SHA, RSA, etc.  
 Tamper detection, Volatile Key Storage, Memory Protection  
 Environment Monitoring PCI-SRED, PCI PTS ready.  
 Secure Bootloader, customer SAM ISO7816, SAM HSP (in option)  
 Contact Smartcard interface EMVco L1, ISO7816-3,4, SAM HSP (in option)

### OTHER FEATURES

Operating Temperature : -10 up to +50°C  
 Operating Frequency : 13.56 MHz  
 Supply Voltage : Regulated 5V DC, : 100mA (max)  
 Dimensions : 82 mm (l) x 72 mm (L) x 10 mm (H)



ABC SMARTCARD develops firmware for contact and contactless smart card readers, as well as connected mobile objects designed to be industrialized by our customers in several types of applications: POS and payment terminals, access control, health, etc. Our core business is our expertise on products and services security, we develop for your needs, so you can acquire national/international certifications required for your project success.