

СНЗХ(S)(Z)-Х

Технические характеристики

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CH3X(S)(Z)-X

Mini 13.56MHz NFC Module
with ultra Low consumption



- **Multiple Smart Card & NFC Supported** – Works with all the major ISO14443A/B, ISO15693, FeliCa cards and compatible with ISO18092 NFC to work with mobile devices and tags.
- **Advanced Secure** - Read Write Mifare Plus, DESFire EV1 by DES/3DES/AES 128-bit algorithm with embedded 2 SAM slots.
- **Ultra Low Power Consumption** - Ideal for mobile and battery-operated devices
- **Dual Antennas** – Works with 2 external antennas ideal to fit some special applications
- **Ultra Mini Size** – 32*28*3.5mm with little weight and comprehensive hardware interfaces
- **Multiple Embedded platform** - Development kit for Windows, Linux and Android and hardware integration.
- **Custom Design Service** - Custom Design Service to meet your specific requirement

CH3X(S)(Z)-X is a NFC & 13.56MHz contactless smart card reader and writer module. It supports almost full range of contactless smart cards technologies, as ISO14443A/B, ISO15693 as well as NFC ISO18092 P2P.

Because of the encryption by DES/3DES/AES 128-bit algorithm, the module fits very well the high security level application such as E-payment, kiosk, vending machine, access control, parking etc. It fully supports Mifare classic, Mifare Plus, DESFire EV1, ultralight C technologies. Further it is with 2 SAM socket that supports ISO7816 to increase the security level and to meet multi-application requirement.

The module is with ultra low power consumption performance and extremely mini size, multi interface, so it especially meets the requirement of handheld reader demands. To fit some special application, the module is with the ability to work with two 13.56MHz antennas.

► Family Member

	CH31(S)(Z)-X	CH35(S)(Z)-X	CH36(S)(Z)-X
ISO14443A	•	•	•
ISO14443B	•	•	
ISO15693	•		
Felica	•	•	•
ISO18092 NFC	•	•	•

* NFC Card Emulation Mode on request

► External antenna



55*50 mm



30*30 mm

► Order Code

CH3X(S)(Z)-X

Antenna

Z -- Dual Antennas(without low consumption)
Default -- One Antenna

SAM Socket

S -- 2 SAM Sockets
Default -- Without SAM Socket

► Application

- Portable Devices [read more+](#)
- Kiosk,E-payment,Vending Machine
- Parking Machine, public transportation
- Access Control,Time & Attendance
- Gate and turnstiles,Lock



► Specifications

Model	CH3X(S)(Z)-X
Dimension	32 x 28 x 3.5 mm
Power Supply	3.3V DC (5V on request)
Power Consumption	0.45mA in ultra low power mode 80mA (<100 mA) during card polling
Wake-Up	Wake up by polling card or TTL signal
Operating temperature	-20 to +60°C
Storage temperature	-25 to +70°C
Contact / Contactless Smart Card Interface	
NFC	ISO18092 Near Field Communication (P2P communication between two modules on request) (Card Emulation mode on request)
RF frequency	13.56MHz
Smart Card Technologies	ISO14443A/B, ISO15693, FeliCa™
Contactless cards supported	ISO14443A: Ultralight (C), Mifare, DesFire EV1, Mifare Plus, SmartMX; ISO14443B: SRI512, SRI2K, SRI4K, SRIX4K, CEPAS (CSN) ISO15693: I-CODE ILT-M, I-CODE SLI-L/S, Tag-It, My-d, EM4035 FeliCa™: Non-Secure FeliCa™, Innovision Topaz NFC: NFC forum tags, ISO/IEC 14443-4 PICC type A and type B
Communication Rate	Up to 848kbps high speed transaction
Antenna	CH3X(S)-X works with one external antenna CH3X(S)Z-X works with two external antennas (without low consumption)
Contact Standard	Two SAMs (ISO7816, T=0,T=1)
General Features	
Hardware Interface	USB, TTL, SPI, Wiegand, ABA1/2, Clock & Data
Baud Rate	9600-115200 Kbit/s (default 115200)
Indication	Controllable 2 LED (Red and Green) and 1 Buzzer to observe working status
Operating System compliant	Linux, Android, Windows 7, Windows 8

► SDK for Easy Development



For easy and fast integration, CIVINTEC offers CH3X(S)-X SDK including all necessary API, software tools, technique documents and program examples under Windows,Linux, Android and hardware integration. It offers Hardware Testing Package (HTP) to establish full testing environment for plug & play quick test and development.

► Customization Types:

- **Firmware:** Modify firmware to match your specific requirement
- **Hardware:** Modify hardware, like PCB size, cable, interface, I/O output, LED, buzzer etc.
- **SAM:** to add more SAM Sockets
- **Antenna:** size and shape
- Others

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