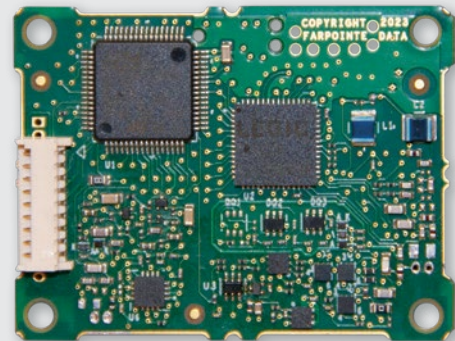




CSM-200

ULTRA LOW POWER MOBILE-READY CONTACTLESS SMARTCARD MODULE



LOCKSETS



VENDING

CUSTOM
READERS

TERMINALS



ALARMS

Conekt Mobile Smartphone Access Control Solution

**Frequency:** 13.56 MHz and 2.4 GHz**Read Range:**Physical Credentials: Up to 1.5 inches (38 mm)Mobile Credentials: Up to 1.5 inches (38 mm)**NFC Support**

Supports OEM Smartphone Wallet Apps

**Bluetooth Low Energy**

Supports Conekt Smartphone Mobile Access Credentials

**Optimized for MIFARE® DESFire® EV2/EV3**

ISO 14443 Contactless Smartcard Support

**ValidID™**

Fraudulent Data Detection Solution

**Optimized for Battery Power**

Ideal for standalone applications

CSM-200 ULTRA LOW POWER MOBILE-READY CONTACTLESS SMARTCARD MODULE

Optimized for ultra-low power applications, such as those powered by batteries, the CSM-200 Ultra Low Power Mobile-Ready Contactless Smartcard Module is a member of Farpointe's CONEKT® line of mobile-ready modules, readers, and credentials. Making use of the proven LEGIC® contactless digital radio frequency identification (RFID) platform, the CSM-200 is intended to be embedded into applications, such as electro-mechanical solutions, where the use of mobile smartphone credentials, such as those making use of BLE and NFC, and/or physical contactless smartcard credentials, is desired.

The CSM-200's compact design allows it to be embedded in tight places. Physical size is 1.7" W × 1.3" H × 0.26" D at coil connector (43.2 × 33 × 6.6 mm). The CSM-200 is typically capable of delivering non-contact read ranges up to 1.5 inches (38 mm) with mobile or traditional physical credentials. Operating at 6 VDC, the typical idle mode current draw is less than 25 uA with default settings. Standard output formats include open collector Wiegand or serial communication protocols. In addition to traditional contactless smartcard access credentials, such as clamshell cards and key tags, the platform also offers the option of mobile access credentials loaded on NFC- or BLE-enabled smartphones. This allows the smartphone to function as a contactless electronic access control credential.

Specifications	CSM-200
Technology ¹	Contactless smartcard, NFC, and Bluetooth Low Energy (BLE), via onboard antenna
Frequency	13.56 MHz (contactless smartcard and NFC) and 2.4 GHz (BLE)
Mounting	Four 0.1" (2.5 mm) holes, one at each corner for simple installation ²
Dimensions	1.7" W × 1.3" H × 0.26" D (43.2 mm × 33 mm × 6.6 mm)
Operating Voltage ³	3.6VDC to 6.5VDC
Idle Current	Typically less than 25 uA with default settings
Read Current	65 mA typical, 85 mA peak (depending on coil)
Operating Temperature	-40° F to 149° F (-40° C to +65° C)
Read Range (typical) ⁴	Mobile or physical credentials: up to 1.5 inches (38 mm)
Host Interface	Wiegand (Card Present, Data 0, Data 1, Open Collector Default, weak pullup to 3.3V optional) Serial communication
Coil Interface	13.56-MHz
LED Indicator	Onboard, amber-colored LED flash indicates credential read
Warranty	12 months
Compliance	Designed to comply with FCC, ISED Canada and UL requirements. OEM is responsible for regulatory and safety approvals.
Optional Functionality	Available I/O pins to support external beeper, LED, I2C interface, external mode control, or other functions
Technologies Supported	<u>Default Technologies Supported:</u> CONEKT mobile and physical credentials <u>Optional Technologies Supported:</u> Interoperable with contactless smartcard CSN ⁵ (may include ISO 14443 compliant credentials and MIFARE® Class 1K & 4K, MIFARE® DESFire® EV2 & EV3, MIFARE UltraLight® and MIFARE Plus®), Sector (may include Delta Card Sector ⁶ , such as MIFARE® Class 1K & 4K, INSIDE Secure®/PICOPASS® classic-type transponders*), File (MIFARE® DESFire® EV2 and EV3), as well as FIPS201 [PIV Type A], TWIC, and CAC credentials, Conekt ⁷ , or Switch™ Tech ("Switch Keys") Mobile Access Credentials, as well as Conekt DESFire-based NFC credentials, Conekt Mobile Access BLE Credentials, and support for OEM smartphone NFC wallet apps such as Apple Wallet and Google Wallet. ⁸

NOTES:

- Optimized for use with devices supporting BLE version 4.2 or newer.
- Assemble with #2 screws or snap fits designed for 0.1" (2.5 mm) holes.
- Designed for battery powered operation, such as that provided by four AA batteries. Never exceed 6.5 VDC.
- Using CSC-2 CONEKT Clamshell Contactless Smartcard with 6 VDC at the module. Other credentials may be less, subject to the installation and operational environment. Mobile read ranges are further subject to the type of smartphone, including, but not limited to, the manner in which it is used, covers or external batteries affixed.

⁵ CSN = Card Serial Number.

⁶ Examples include, but are not limited to, CSC-2, CSM-2, and CSK-2.

⁷ Conekt Mobile Access BLE Credentials are intended to be supported by the current and preceding versions of Apple® iOS and standard compliant Google Android™ mobile operating software (OS). Custom OS variants may result in a loss of functionality.

⁸ Implementation of Apple Wallet involves a collaboration between the end-user, Farpointe and its technology partners. Additional technologies supported. Contact Farpointe directly with specific requirements.

PIN	Description
J1-1	+VDC Input
J1-2	GROUND Input
J1-3	Spare I/O
J1-4	Spare I/O
J1-5	CARD PRESENT Output Signal
J1-6	DATA 0 Output
J1-7	DATA 1 Output
J1-8	Serial RX
J1-9	Serial TX

PIN	Description
J2	Internal Use Only (programming port)
J3-1&2	13.56-MHz Antenna (no polarity)
J5-1	Spare I/O
J5-2	Spare I/O
J5-3-	Wired in parallel with J1-1 through J1-9
J5-12	Spare I/O
J5-13	Spare I/O

FCC Statement

FCC ID: T81-CONEKT6

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC rules 15.225 and 15.247 apply to this module.

ISED Canada Statement

IC: 6504A-CONEKT6

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil contient des émetteurs/récepteurs exempts de licence qui sont conformes aux RSS exemptes de licence d'Innovation, Sciences et Développement économique Canada. Son fonctionnement est soumis aux deux conditions suivantes:

- Cet appareil ne doit pas provoquer d'interférences.
- Cet appareil doit accepter toutes les interférences, y compris les interférences susceptibles d'entraîner un fonctionnement indésirable de l'appareil.

ISED rules RSS-210 and RSS-247 apply to this module.

FCC/ISED RF Exposure Statement

This equipment complies with the FCC and ISED RF radiation exposure limits set forth for an uncontrolled environment.

This transmitter must be installed and operated with a **minimum separation distance of 20 cm** between the radiator and any part of your body. End users and installers must ensure that this distance is maintained during normal operation.

This device must not be co-located or operated in conjunction with any other antenna or transmitter, except in accordance with FCC multi-transmitter product procedures.

www.farpointedata.com

Farpointe Data reserves the right to change specifications without notice.

Dec 12 2025



PRELIMINARY

CONNECTOR PART NUMBERS

J1 main connector on PCB — Mating Connector: **Molex 510210900**

J3 1 3.56-MHz antenna on PCB — Mating Connector: **Molex 0781720**

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