



**Fingerprint  
Module Available**



**Slim Line Design  
LF RFID**



**Magstripe  
Available**



**Part# MX5C-CBP-EM**

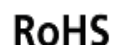
## **MX5C** EM is a Slim, lightweight Design for Reading 125 KHz Low Frequency Radio Frequency Identification (RFID) cards

Ideal for varieties of applications, such as reading Membership Cards or any other contactless LF cards. Equipped with a multitude of configurations that are easily customized to meet your needs and applications.

Unlike any other reader on the market today, you will not need to stock different models to support USB VRS Serial, Keyboard, HID or Custom applications. Using the MX5 Utility you can select the desired communication (HID KB, VRS, HID Report output setting, save your changes into Flash memory of the MX5 device and your MX5 device is ready to meet your needs.

## Features & Benefits

- Cost Effective Solution to read 125 KHz LF RFID
- Surface Mountable
- EM, AT, TK Compatible Card type supported
- Built-in Data Encryption Option with the MX5 High Speed 32 bit Processor: Triple DES, AES128, Advanced Security Features and Masked Data Available
- Audible and LED Good Read and Error Indicator
- Programmable Sound and LED On/Off
- Flash Upgradable Firmware with Selectable HID KB, VRS (serial), USB-HID or Custom communication settings
- Auto Caps Lock Detection, Upper Case or Lower Case Option
- Built-in Boot Load Function for Easy Firmware Upgrade
- Also available with Magstripe and / or Fingerprint option
- Two Year Warranty



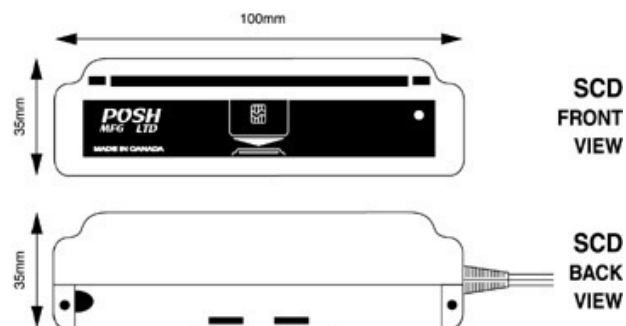
# Specifications:



**USB to RS232  
Converter  
Cable Available**

|                                     |   |
|-------------------------------------|---|
| Supported RFID Card Type            | 125 KHz EM, TK, AT  |
| Communications                      | Selectable HID KB, VRS (serial), USB-HID or Custom communication settings                           |
| Power                               | Via USB port  |
| Current mA                          | 35-50 mA  |
| Connectors                          | USB Type A (Default) Also Available in PS2 Mini DIN6/DIN 5, RS232 DB9F using Cable Converter option |
| Cable Length                        | 6 Ft (180 cm)(Default) also Available in 2 Ft ( 60 cm) and 15 Ft (450 cm)                           |
| Dimensions (LxWxH)                  | 100 x 32 x 35 mm  |
| Total Weight                        | 120 g   |
| Operating Temp.                     | - 20 C to 55 C  |
| Humidity                            | 10% - 90% relative humidity   |
| Quick Set® Factory Default Card     | n/a   |
| Set-up Utility                      | Yes   |
| Flash Memory Update                 | Yes   |
| Boot Load Flash Upgradable Memory   | Yes   |
| Programmable Sound & LED On/Off     | Yes   |
| Programmable Carriage Return        | Yes   |
| Programmable Inter character Delay  | Fixed   |
| Programmable SS/ES Selectable Char. | Yes   |
| Parity and LRC Data Checking        | Built-in, audible and LED good read and error indicator   |
| Certifications                      | CE, FCC, UL, RoHS   |
| Also Available with                 | Magnetic Stripe Card Reader, Smart Chip Reader/Writer   |
| Support Operating Systems           | Win 11 / 10 / 7, Win 2008 , Unix, Linux, IOS  |
| Warranty                            | 2 years   |

## Dimension View:



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# Fingerprint Specification:



|                           |  |
|---------------------------|--|
| <b>Fingerprint Module</b> | <b>TCETC1FF022</b>   |
| <b>Sensor Coating</b>     | FIPS 201 (gold coating)  |
| <b>Power</b>              | 3.3 v, Powered by Device Fingerprint is installed on   |
| <b>Current</b>            | 100 mA typical current used by Fingerprint device only   |
| <b>Fingerprint Image</b>  | 2.8 x 18.0 mm (256 x 360 pixels)<br>508 dpi, 8-bit grayscale   |
| <b>Dimensions</b>         | 23 mm x 35 mm x 4.1 mm   |
| <b>Interface</b>          | USB is internally Connected via 12 pin Flex cable  |
| <b>Humidity / Temp.</b>   | 5% - 93% relative humidity , -30C to 70C   |
| <b>ESD</b>                | IEC 61000 - 4.2 level 4, +/- 15KV air, +/- 8KV contact   |
| <b>Certifications</b>     | FIPS 201 PIV Certified   |
| <b>Ingress Protection</b> | IP65-rated top surface sealed against dust and liquid* (Fingerprint Module Only not device)  |
| <b>Storage</b>            | Can store up to approximately 100 user templates   |
| <b>Software</b>           | Includes broad software support from leading algorithm providers, ISV's and system integrators, Supports WSQ and JPEG2000 compression with the appropriate Software Development Kit. |
| <b>Operating System</b>   | OS: Windows® 7, 8 and 10, Win CE, Linux®   |
| <b>Warranty</b>           | 1 year   |



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Specifications subject to change without notice