

# mCard CPK Card Brochure

## Features and Physical Characteristic

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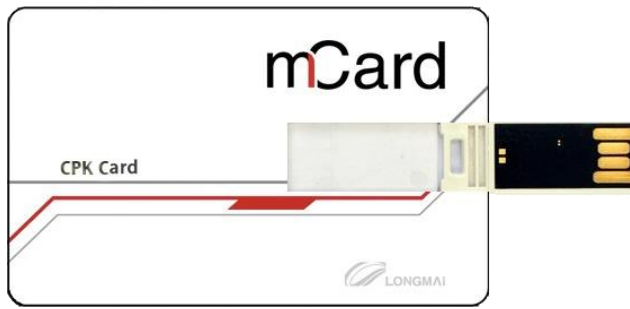
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mCard CPK (Contactless access control card with USB port for PKI authentication) developed with a peculiar emphasis on user convenience, fast transaction speed, exceptional reliability for frequent usage, security against fraud and cost effectiveness.

It is lightweight contactless card with USB token that provide both contactless and strong authentication PKI based solutions.

Proved waterproof, dustproof and quake proof is also secure and portable contactless device in the market adopting USB and IC packaging techniques in a single product to offer support for digital certificate management, private information protection, and physical & virtual access control.

- Built-in 32bit smart card chip which is primarily used in banking industry
- All in One card solution
- 192K safe data storage used to store certificates, keys and sensitive data
- Unparalleled Integration with PKI application and Access Ecosystem
- Compliance with industry standards
- High data integrity during communication and data transmission
- Anti-collision algorithm allows operation with multiple cards exposed to a single antenna field simultaneously
- Support USB or contactless card
- Support standard Microsoft CAPI and PKCS#11
- Support standard PKCS#12 and X509 v3 certificate
- Support for Windows, Linux & Mac OS X
- Operating distance up to 100mm or 4 inches
- Waterproof, dustproof and quakeproof

### Contact smartcard chip Parameters

<b>Power Supply</b>	USB Power Supply
<b>Working Voltage</b>	5V USB port power supply
<b>Working Current</b>	80-150mA
<b>Operating Temperature Range</b>	0~70℃
<b>Storing Temperature</b>	-20~80℃
<b>Casing Material</b>	PVC
<b>Communication Protocol</b>	USB
<b>Interface Type</b>	USB 2.0/USB 3.0
<b>Processor</b>	32-Bit High Performance Smartcard Processor
<b>Certificate Storage Capacity</b>	192K
<b>*External Storage Capacity</b>	0M-8M

### Contactless smartcard chip Parameters

<b>Power Supply</b>	Build-in Coil Power Supply
<b>Operating Frequency</b>	13.56MHZ
<b>Operating Range (Read &amp; Write)</b>	2.5-10cm
<b>Working Temp Range</b>	0~70℃
<b>Storage Temp Range</b>	-20~80℃
<b>Casing Material</b>	PVC
<b>Communication Protocol</b>	ISO14443 Type A protocol
<b>Contactless Media</b>	M1/NFC/CPU
<b>Data Retention</b>	10 years

\* Capacity optional 4G~32G



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