MTOKEN CRYPTOID

A new generation smartcard chip based two-factor authentication device utilizing CCID drivers to protect the device and are less susceptible to packet sniffing thus providing stronger authentication. The command-response protocol is transferred via the USB interface and is compatible with ISO/IEC 7816-4 standards. It provides the security services needed to interact with the Public Key Infrastructure (PKI) applications, including Digital Signature Generation/Verification for online authentication and Data Encryption/Decryption for online transactions.

WHY IS FIPS 140-3 IMPORTANT?

FIPS 140-3 certification is a critical standard for ensuring the security of cryptographic modules. It provides a comprehensive framework for protecting sensitive data, helping organizations comply with regulations, build trust, and safeguard their information against ever-evolving cyber threats.

A CUSTOMIZATION
Adjust APIs, tools or initialization settings

B RE-BRAND
Replace the logo with provided one from tools

C OEM
Fully modify hardware and software info

D CASING
Change the casing color or design a new one

THE KEYPOINTS

- **Smart Card Based**
  Utilizes 32-bit smart card technology enabling smart card-based authentication and strong authentication.

- **Plug-and-Play**
  mToken CryptoID is certified from Microsoft HCK/HLK and automatically installs drivers from Microsoft Windows Update

- **Unique Global Hardware ID**
  Employs both a unique global hardware ID and user-defined 32-bit software ID for device own identification.

- **Offers various application support**
  Suitable for all E-Cert applications (Smartcard logon, BitLocker, SSL, secure email, VPN .etc.)

MODULE CHARACTERISTICS

Cryptography Standards Compliant
- Microsoft SmartCard Mini Driver
- Microsoft CryptoAPI
- PKCS# 11 V2.20
- X509 v3 certificate storage
- SSL V3, IPSEC/KEC, PC/SC, CCID

Cryptographic Algorithms
- ECDSA P256/P521
- RSA 2048 Bit
- AES128/192/256
- SHA-256, SHA-384, SHA-512

Cryptographic Functions
- Hardware-Secured Key Management and Storage
- Microsoft SmartCard Mini Driver
- X.509 v3 Certificate Storage
- SSL v3, IPSec/IKE, PC/SC, CCID
- Onboard Digital Signing and Verification

Hardware System
- 32-Bit High Performance Smartcard Processor
- 128K User Memory
- 2MB Flash Memory
- Support for Multi-Certificate and Multi-Keypair

Platform Compatibility
- Windows Server 2003, Vista and 7,8,10,11 and above
- Mac OS X
- Linux

Physical Characteristics
- USB Connection: USB 1.1/2.0/ 3.0
- Humidity: 0~90% (Without Condensation)
- Operating Temperature: -30℃~80℃
- Storing Temperature: -50℃~100℃
- Casing Material：Plastic/Metal
- Data Retention：At Least 10 Years