

Passwordless & MFA (FIDO2 &U2F)

Turnkey solution

Built-in Crypto Engine Key Management Interface

Why should passwords be eliminated?

- Weak spot causing breach
- Painstaking management

81% of cyberattacks result from passwords

Many attempts to establish seemingly unnecessary procedure, which is usually labeled as "red tape" in governmental entities or enterprises, are in large part to place trust and ensure accountability. In case something unexpected or violations occur, there is someone to be blamed and held accountable. The situation gets even worse in the digital world. Digital bits are invisible. We do not know whether malicious contents sneak in under the cloak of legitimacy. In this regard, we use accounts and passwords, SMS, policies and others to confirm identities. Verification is doubtlessly required, but as there are more and more accounts and passwords to memorize and nastier cyber and phishing attacks, enforcing harsher passwordpolicies resembles a hamster on a wheel. A report even shows passwords are the root of 81% of breaches (Verizon Data Breach Investigations Report, 2017). Despite strong passwords, managing passwords itself is problematic and may lead to leakage. Only by thinking beyond the frame can we devise a way of letting usability and security go hand in hand.

Paradigm Shift in Root-of-Trust

With passwords jeopardizing productivity and security, a paradigm shift toward the based (public key cryptography) trust anchor has occurred. We no longer place trust in passwords.

Rather, we place trust in cryptography; we place trust in a private key securely stored in a secure environment and never leaving its physical secure boundary. In 2021, WiSECURE Technologies joined FIDO (Fast Identity Online) Allance, becoming a member of FIDO Japan and FIDO Taiwan. WISECURE then collaborates with leading service providers to deliver FIDO authentication solutions. From clouds to ends, WiSECURE's mission is to rescue governmental entities and enterprises from the threats of phishing and impersonation.

AuthTron - Turnkey Solution

AuthTron security key is U2F and FID02 L2 certified, supporting passwordeess and multi-factor authentication. With AuthTron turnkey solution covering RP server, FIDO server, hardware security module (HSM) and issuance and management mechanism, WiSE-CURE aims to satisfy enterprise-level requirements for supervision, secure maintenance and device authorization and control. The same model has been implemented by Google with issues of data leakage and illegal access resolved. WiSECURE also provides crypto-based customization service, adding other cryptographic functions for data encryption, transaction signature, blockchain applications and so on.

You can use AuthTron security key to log into MicroSoft, Google, Amazon, Dropbox, etc.

From "password" to "cryptography"

AuthTron Features

- Enterprise orientation
- Password-less and multi-factor
- Built-in cryptographic functions





Specification

*The actual order specifications will be based on customer's requirements.

Supported Applications • FIDO2 Authenticator

Hardware Cryptographic Module

Key Management Functions • Multiple Application Key Domains (Up to 8 applications /

Up to 128 keys per application)

Support ECC (NIST P-256, P-384, P-521, Brainpool 512),

RSA (2048) keys

Authentication Features • Security policy for limited password attempts (FIDO only)

Touch pattern for user presence (FIDO only)

Crypto Algorithms and Services • ECDSA / ECMQV / EdDSA / RSA

ECDH / ECIES

HMAC-SHA2 / HMAC-SHA3

SHA2 / SHA3 (Host Software Library)

Key Wrapping and Unwrapping

PBKDF

Random Number Generation

- DRBG with TRNG as seed

Cryptographic API • PKCS#11

Native API

Interface • USB 2.0

Certification • FIDO2 level 1, level2 and U2F level 1

· CC EAL5+ certified security chip

CE

• FCC

RoHS

Advantages of WiSECURE FIDO2 Saolution



Comprehensive Product Portfolio

With crypto modules applied to clouds and ends, WURE is also engaged in deployment and consulting, expecting to help customers clarify potential risks in specific cases so as to constitute the most cost-efficient solution.



Crypto Implementation and ODM Service

From low-level crypto functions to hardware development, WISECURE builds security products from the grounds up and also provide ODM service for customers requesting branded security keys.



Cognition-based User Presence

WISECURE adopts patented "cognition-based user presence", which reaches the biometrics security level without the need to access users' sensitive biometric information.

FID02 Strong Authentication Solution Heightened Data Protection

Centering on cryptography, WISECURE is devoted to protection of customers' valuable data. Buit on FIDO2 certified AuthTron security key and CryptoAir encryption engine, the data protection solution FileAegis been launched to protect and securely share data. Employing FileAegis ensures

You can trust your data are secure

Data on premises are encrypted in case of internal and external attacks or human errors

You can trust co-workers' data are safe

FID02 authentication cracks unauthorized access and enforces audit logging of action Additional signing mechanisms can also be supplemented

You can trust customers' data are sealed

Leakage of customers' personal information may bring about massive legal fines

FileAegis' protects data at rest in transit from malware, man-in-the-middle attack and unauthorized access. FID02 authentication framework enables least privilege management and audit logging to enforce enterprise security policy.

Contact us

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