

PUF-Powered FIDO2 Security Key for Zero Trust Access



Next-Generation Hardware Security for the Zero-Trust Era

The CoreTrust Key is a hardware-based FIDO2 security key designed to protect digital identities and prevent unauthorized access in today's evolving cyber threat landscape. By enabling passwordless authentication, it eliminates the risks associated with traditional passwords, such as phishing and credential theft, while strengthening Zero-Trust security frameworks.



Works Across Your Daily Platforms

The CoreTrust Key enables secure passwordless login across widely used platforms and services, including Google, Microsoft, social media, and e-commerce applications. With a single USB key, users can securely access their accounts and services without relying on passwords, providing a safer and more convenient authentication experience.

Work Across Your Daily Platforms



FIDO2 Passwordless Authentication

- Enables secure passwordless login using FIDO2 standard, eliminating risks associated with traditional passwords
- Protects against phishing attacks and credential theft through hardware-based authentication
- Provides a simple and secure user experience for daily login operations

Google and Microsoft Platform Compatibility

- Supports seamless integration with major platforms such as Google and Microsoft account login systems
- Allows quick deployment without modifying existing infrastructure
- Enhances security for widely used cloud services and enterprise environments

Secure Credential Protection

- Stores authentication credentials securely within the hardware device instead of host systems
- Prevents credential exposure from malware or software-based attacks
- Reduces the risk of data leakage compared to traditional software storage

Zero-Trust Access Control

- Enables strong identity verification for accessing critical systems and services
- Strengthens access security in Zero Trust environments
- Ensures only authorized users can access sensitive resources

Enterprise Integration

- Supports integration with enterprise systems, devices, and network environments
- Works with Zero Trust solutions such as security gateways to enhance access control
- Provides flexible deployment for enterprise and organizational use

Compact USB Security Key Design

- Features a portable USB form factor for convenient daily use
- Plug-and-use operation with no additional software required
- Durable design suitable for both personal and enterprise environments

Passwordless Authentication with Seamless Deployment

Supporting the FIDO2 standard, the CoreTrust Key allows users to authenticate securely without changing existing systems or workflows. Its plug-and-use design makes it easy to deploy across both personal and enterprise environments, delivering strong security with minimal user effort.

Secure Passwordless Login



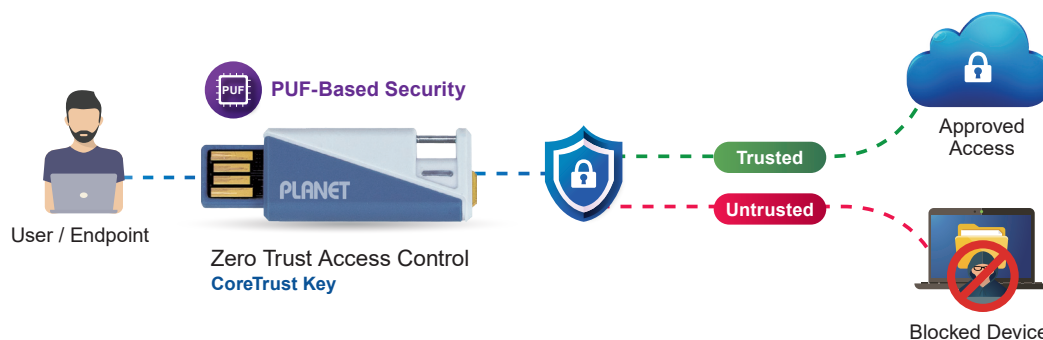
Secure Access for Modern IT Environments

Designed for both individuals and organizations, the CoreTrust Key enhances secure access to cloud services, corporate systems, and critical resources. It is an ideal solution for enterprises adopting Zero-Trust architectures, ensuring that only verified users can access sensitive systems and data.

PUF-Based Hardware Security Protection

The CoreTrust Key incorporates advanced PUF (Physical Unclonable Function) technology to generate a unique and unclonable hardware identity for each device. This provides strong protection against cloning and physical tampering, ensuring a high level of trust and security for authentication processes.

Unclonable Hardware Security for Zero Trust Access



Enterprise-Ready Security Integration

The CoreTrust Key can be integrated into enterprise IT infrastructures to strengthen identity verification and access control. When deployed alongside security solutions such as Zero Trust gateways, it helps organizations build a more secure and reliable network environment.

Secure, Portable, and Easy to Use

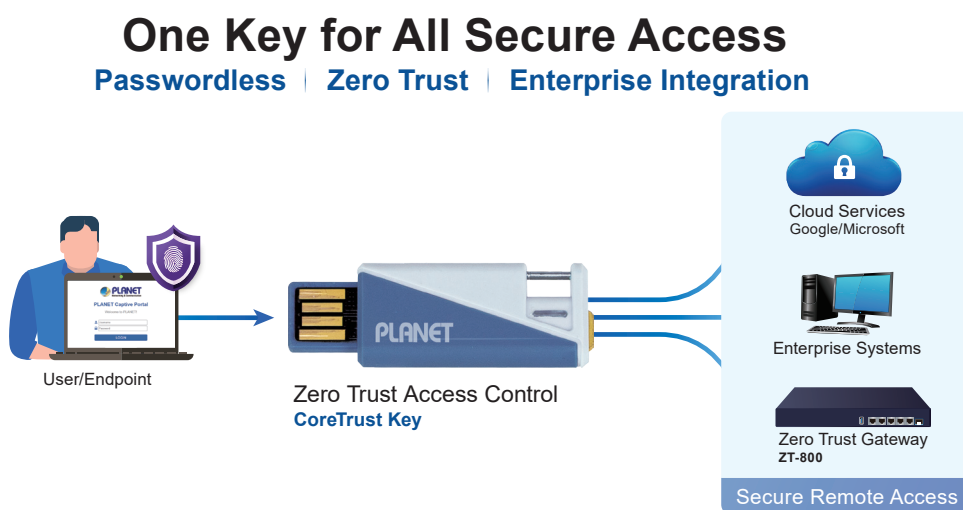
With its compact USB form factor and durable design, the CoreTrust Key offers a portable and user-friendly solution for everyday authentication. It provides strong security protection while maintaining a simple and intuitive user experience.



Applications

Secure Access Across Daily Platforms and Enterprise Environments

The CoreTrust Key enables secure passwordless access across widely used platforms such as Google and Microsoft, while extending strong identity protection to enterprise systems and critical network resources. When deployed with PLANET solutions such as the ZT-800 Zero Trust Gateway, it helps enforce secure access control and ensures that only authenticated users can access sensitive services and infrastructure.



Specifications

Model	CoreTrust Key
Hardware Specifications	
Authentication Standards	FIDO2 (WebAuthn, CTAP2)
Interface	USB Type-A
Operation Mode	Passwordless Authentication
Platform Support	Google, Microsoft and other FIDO2-supported services
Credential Capacity	Supports up to 50 website or platform credentials
Security Technology	Hardware-based Authentication with PUF (Physical Unclonable Function) Technology
Use Case	Account Login, Identity Verification, Zero Trust Access
Compatibility	Compatible with major operating systems (Windows, macOS, Linux)
Power Supply	USB Bus Powered
Form Factor	USB Key (Compact Type)
Connector Type	USB Type-A Male
Ingress Protection	Dust-resistant design
Dimension (W x D x H)	53 × 18 × 5.6 mm
Weight	6 g
Compliance & Certification	
Certifications	FIDO2 certified
Compliance	CE, FCC , RoHS
EMC Standards	EN 55032, EN 55035, FCC CFR 47 Part 15B
Environmental Specifications	
Operating Temperature	0 ~ 50 degrees C
Storage Temperature	-10 ~ 70 degrees C
Operating Humidity	5% ~ 95% (non-condensing)

Ordering Information

CoreTrust Key	PUF-Powered FIDO2 Security Key for Zero Trust Access
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Related Products

ZT-800	Dual 10G Zero Trust Security Gateway with 4-Port 10/100/1000T
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