

# FortiToken™ 310

PKI Certificate-based Authentication



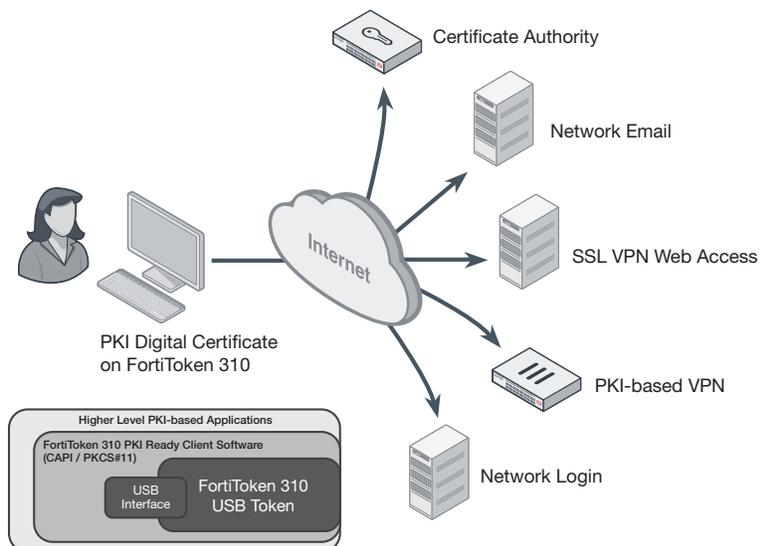
## Versatile Secure Digital Certificate Storage and Usage

FortiToken 310 is a Smart Card USB token that is a USB-interfaced device offering a variety of security capabilities including certificate-based public key infrastructure (PKI) authentication, digital signing, encrypting/decrypting files such as emails and documents, VPN client authentication, and more.

In digital certificate-based PKI applications, private keys play an important role in asymmetric cryptography. The FortiToken 310 is a high-security PKI based token that ensures private keys are generated, stored and used internally in a secure chip, meaning the keys are never at risk of being stolen. The FortiToken 310 token is FIPS 140-2 validated and fully certified to ensure this level of protection meets the highest standards. The FortiToken 310 token is a USB-interfaced device that requires no drivers (i.e., driverless) for most operating system (OS) including Windows, macOS, and Linux. It is natively recognized by the OS, making it easy to use with no plugins necessary. Cryptographic Applications can be authenticated with the FortiToken 310 token based on Microsoft Cryptographic Application Programming Interface (CAPI)\* and Public-Key Cryptography Standards (PKCS) #11\*\*.

### Highlights

- Driverless USB device
- High-performance smart card chip
- FIPS140-2 Level 3 Certified
- Windows, Linux, and MacOS supported
- MS-CAPI and PKCS#11 APIs supported
- Onboard random number generator
- Onboard RSA, AES, DES/3DES, SHA-1, SHA-256 algorithms approved by NIST FIPS CAVP
- Economical PKI Smart Card
- Perpetual license
- Tamper-evident hardware USB Token
- Easy integration with PKI infrastructure



\*CAPI: Cryptographic Application Programming Interface.

\*\*PKCS#11: Public-Key Cryptography Standards #11 v2.20, Cryptographic Token Interface Standard.

## Specifications

FORTITOKEN 310	
Supported Operating Systems	32-bit and 64-bit Windows, Linux, and MacOS
API and standards support	Microsoft CAPI, CNG PKCS#11 V2.20 Microsoft Smart Card Minidriver PC/SC, CCID SSL v3 IPSec/IKE
FIPS140-2 Security Level	Level 3
FIPS-approved cryptographic algorithms	AES-128, 192, and 256 bits ECDSA P-256 with SHA-256 RSA-2048 with SHA-256, SHA-384, and SHA-512 SHS digital signature: SHA-256, SHA-384, SHA-512 SHS non-digital signature: SHA-1, SHA-256, SHA-384, SHA-512
Middleware	Windows middleware for Windows CSP Direct-called library for PKCS#11 under Windows, Linux, and MAC
Standards	X.509 v3 Certificate Storage, SSL v3, IPSec, ISO 7816 1-4 8 9 12, CCID
Cryptographic Algorithms	RSA 2048 bit ECDSA P-256 w/ SHA-256 AES 128/192/256 bit SHA-1, SHA-256, SHA-384, SHA-512
Cryptographic Functions	Onboard key pair generation Onboard digital signature and verification Onboard data encryption and decryption
Cryptographic APIs	Microsoft Crypto API (CAPI), Cryptography API: Next Generation (CNG) PKCS#11 PC/SC
Processor	32-bit smart card chip
Memory Space	64 KB (EEPROM)
Endurance	At least 500 000 write/erase cycles
Data Retention	More than 10 years
Memory rewrite cycle	At least 500 000 read/write cycles
Connectivity	USB 2.0 compliant
Interface	ISO 7816 CCID
Power Consumption	Less than 250 MW
Dimensions (mm)	53 × 16.5 × 8.5
Weight	6 g
Operating Temperature	0°C to 60°C (32°F to 140°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Humidity	0% to 100% without condensation
Certifications	FIPS 140-2 Level 3, CE, FCC, UKCA, ICES

### Platform Scalability

FortiToken scalability for specific platforms can be found in the Fortinet Product Matrix located at [http://www.fortinet.com/sites/default/files/productdatasheets/Fortinet\\_Product\\_Matrix.pdf](http://www.fortinet.com/sites/default/files/productdatasheets/Fortinet_Product_Matrix.pdf)

## Order Information

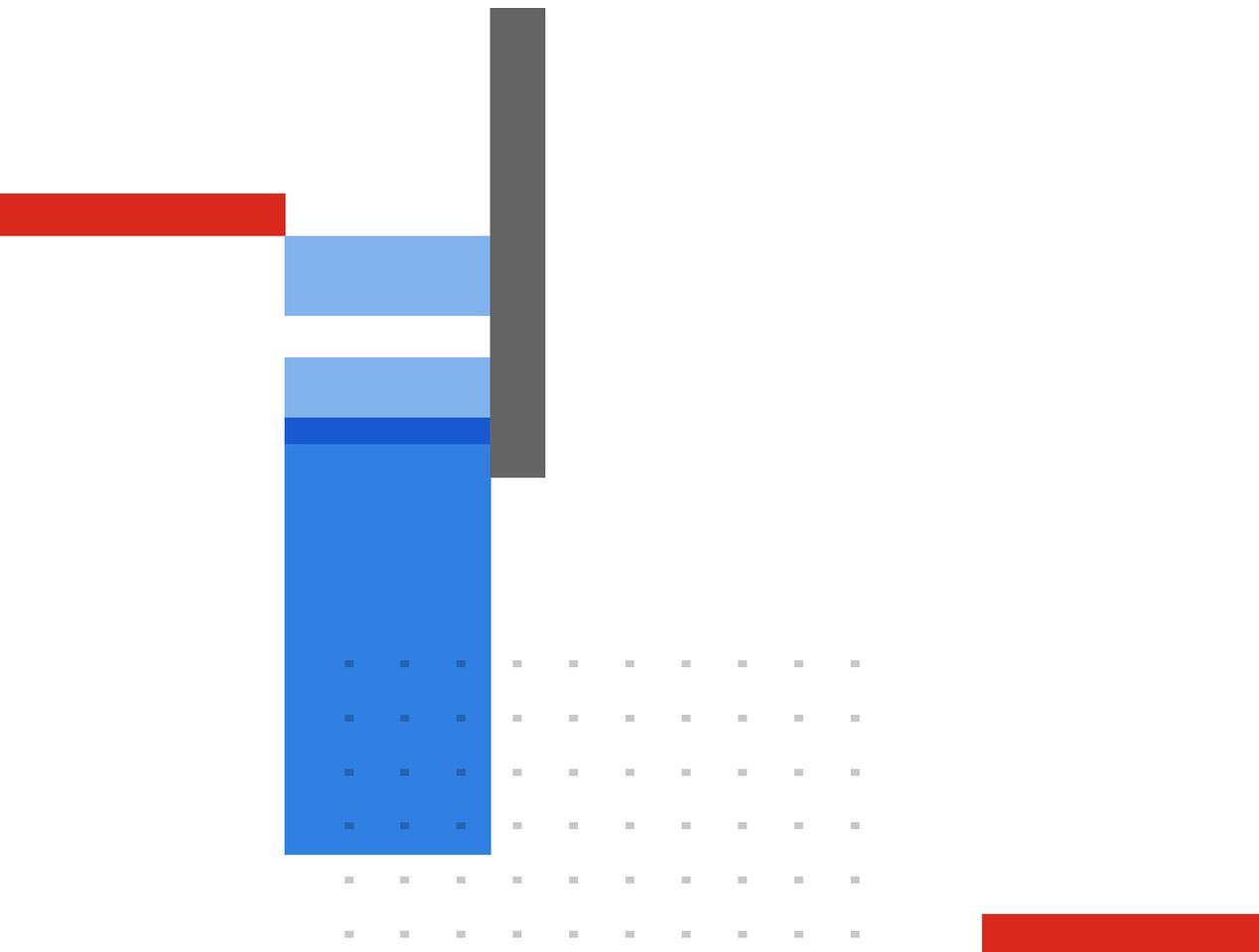
Product	SKU	Description
FortiToken 310	FTK-310-5	5 USB tokens for PKI certificate and client software. Perpetual license.
	FTK-310-10	10 USB tokens for PKI certificate and client software. Perpetual license.
	FTK-310-20	20 USB tokens for PKI certificate and client software. Perpetual license.
	FTK-310-50	50 USB tokens for PKI certificate and client software. Perpetual license.
	FTK-310-200	200 USB tokens for PKI certificate and client software. Perpetual license.



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