UniMate® USB / Mini

Cost Effective PKI USB Two Factor Authenticator
FIPS 140-2 (Level 2) Certified PKI Token

Two-Factor Authentication

As opposed to single-factor authentication, where only a password is required to verify the user's credentials, two-factor authentication requires two separate modes of validation: "something you know" – the password, & "something you have" – the UniMate® device. Both password and the UniMate® device are needed to successfully complete the login process. UniMate® features the ability to generate encryption keys and store: passwords, digital certificates and personal credentials within the token.

High-Performance Smart Card Based Device

The UniMate® USB/Mini device is optimized with a 32-bit smart card to generate RSA encryption key pairs quickly onboard the token, enabling sophisticated security with minimal hassle and effort.

Multi-Level Permission Management

UniMate® utilizes three levels of token permission management: administrator, user and guest. Administrator holds the highest permission level, and guest holding the lowest. Any operation on the token requires explicit permissions, ensuring the security of the device is maintained to users with the appropriate permission level.

Virtual CD-ROM Partition

UniMate® has a built-in CD-ROM partition which allows users to view/read but not modify stored contents, and hence maintained the integrity of files.

Features	UniMate USB/Mini
CCID	✓
Secure Mass Storage	
On-Demand Partition	
Smart Card	✓
Onboard Encryption	✓
PKCS#11 Supported	✓
MS-CAPI Supported	✓
X.509 Certificate Supported	✓
Globally Unique Hardware ID	✓
Customized UniMate Name	✓
3-Level Permission Management	✓
Customization Service	✓
Secure Memory	✓

Technical Specifications - UniMate® USB/Mini

Hardware	
Onboard Capacity	> 64 KB
Dimensions	UniMate USB: 52.8mm x 17mm x 7mm UniMate Mini: 24.6mm x 15mm x 7mm
Weight	UniMate USB: 6.4g UniMate USB Mini: 2.3g
Case Material	Tamper-Resistant Metal (UniMate USB) / Plastic (UniMate USB Mini)
Color (Factory Default)	Grey
Operating Temperature	0°C to 70°C
Storage Temperature	-10°C to 85°C
Humidity Rate	0-70% without condensation
Min.Operating Voltage	5 V
Current Consumption	150mA
Device Interface	USB 2.0
USB Protocol	CCID (Chip Card Interface Device)
Hardware Algorithmns	
PKI Middleware	PKCS#11, MS-CAPI, FIDO
Onboard Encryption Algorithms	2048-bit RSA, 1024-bit RSA, 128-bit AES, 192-bit AES, 64-bit DES, 64-bit TDES
Onboard Hashing	160-bit SHA-1, 160-bit HMAC_SHA, 128-bit MD5, 128-bit HMAC-MD5
Performance Index	
Time For Digital Signing via USB	<0.5s
RSA 1024-bit Key Generation Time	< 3s
RSA 1024-bit Sign Time	< 300ms
RSA 2048-bit Key Generation Time	< 12s
RSA 2048-bit Sign Time	< 500ms
Certifications	
Computer Security	FIPS 140-2
Manufactory	CE/FCC (FCC Declaration of Conformity) RoHS (Restriction of Hazardous Substances Directive)
Device Identification	
Hardware ID	Globally-unique
Hardware Encryption Algorithms	AES (ECB 128-bit, 192-bit, 256-bit), AES (CBC 128-bit, 192-bit, 256-bit) DES (ECB), DES (CBC), RSA (1024-bit, 2048-bit), 3DES (ECB), 3DES (CBC)
Hardware Hashing Algorithms	MD5,SHA-1
PKI Support	PKCS#11, MS-CAPI, X.509v3
Memory Cell Rewrites	At least 100,000
Memory Data Retention	At least 10 years
Operating Systems	Windows 98 SE , Windows 2000, Windows ME, Windows XP, Windows Server 2003, Windows Vista, Windows Server 2008. Windows 7, Windows 8, Windows 10, Linux (2.2+), FreeBSD (5.x, 6.x, 7.x, 8.x, 9.x), Mac OS X (10.4, 10.5, 10.6), (32-bit and 64-bit all above)
Warranty	
Manufacturing & Material Defects	1 year